## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 68 mA, $I_{EN}$ = 2.06 mA @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.8 | -32.9 | -1.8 | -4.5 | 1.4 | 0.9 | 18.8 | 20.7 | 4.7 | 29.0 | 30.7 | 30.4 | 30.0 | 29.8 | 29.7 | 29.5 |
| 300.00 | 19.5 | -28.1 | -5.6 | -8.7 | 1.2 | 0.8 | 19.0 | 20.8 | 2.4 | 30.3 | 29.5 | 29.8 | 29.7 | 29.9 | 29.7 | 29.4 |
| 400.00 | 21.1 | -26.5 | -11.5 | -14.9 | 1.2 | 0.7 | 19.7 | 21.2 | 1.8 | 31.0 | 31.4 | 30.6 | 31.5 | 31.1 | 30.7 | 30.5 |
| 500.00 | 21.4 | -26.1 | -17.5 | -18.9 | 1.1 | 0.7 | 20.1 | 21.3 | 1.6 | 31.0 | 32.3 | 31.3 | 31.6 | 31.5 | 31.3 | 31.0 |
| 600.00 | 21.5 | -26.1 | -19.6 | -18.3 | 1.1 | 0.6 | 20.5 | 21.4 | 1.4 | 31.0 | 31.1 | 32.3 | 32.4 | 32.2 | 32.0 | 31.8 |
| 700.00 | 21.5 | -26.1 | -18.2 | -17.2 | 1.1 | 0.6 | 20.7 | 21.7 | 1.4 | 30.9 | 32.1 | 31.5 | 31.3 | 31.1 | 30.9 | 30.7 |
| 800.00 | 21.5 | -26.1 | -17.1 | -16.7 | 1.1 | 0.6 | 20.8 | 21.8 | 1.4 | 33.4 | 31.5 | 31.9 | 31.9 | 31.9 | 31.8 | 31.6 |
| 900.00 | 21.5 | -26.2 | -16.4 | -16.6 | 1.1 | 0.6 | 20.9 | 21.9 | 1.4 | 31.0 | 31.5 | 32.0 | 31.9 | 31.8 | 31.5 | 31.4 |
| 1000.00 | 21.5 | -26.2 | -16.0 | -16.8 | 1.1 | 0.6 | 20.9 | 21.9 | 1.4 | 31.5 | 31.7 | 31.9 | 31.6 | 31.6 | 31.5 | 31.4 |
| 1100.00 | 21.5 | -26.2 | -15.9 | -17.3 | 1.1 | 0.7 | 20.8 | 21.9 | 1.4 | 29.9 | 31.2 | 32.1 | 31.7 | 31.7 | 31.4 | 31.2 |
| 1200.00 | 21.5 | -26.3 | -15.8 | -18.1 | 1.1 | 0.7 | 20.9 | 22.0 | 1.4 | 30.9 | 31.0 | 31.7 | 31.4 | 31.1 | 31.0 | 30.9 |
| 1300.00 | 21.5 | -26.3 | -15.8 | -19.1 | 1.1 | 0.7 | 21.0 | 22.1 | 1.5 | 31.1 | 31.3 | 30.9 | 30.9 | 30.8 | 30.7 | 30.6 |
| 1400.00 | 21.5 | -26.4 | -15.9 | -20.4 | 1.1 | 0.7 | 20.8 | 21.9 | 1.4 | 31.7 | 30.5 | 30.9 | 30.9 | 30.9 | 30.7 | 30.6 |
| 1500.00 | 21.5 | -26.4 | -15.9 | -22.2 | 1.1 | 0.7 | 20.8 | 22.1 | 1.4 | 29.9 | 30.1 | 30.2 | 30.1 | 30.0 | 29.9 | 29.7 |
| 1600.00 | 21.5 | -26.5 | -15.6 | -24.5 | 1.2 | 0.7 | 20.8 | 22.0 | 1.5 | 29.4 | 29.8 | 30.4 | 30.3 | 30.0 | 29.9 | 29.8 |
| 1700.00 | 21.5 | -26.6 | -15.3 | -26.5 | 1.2 | 0.7 | 21.0 | 22.3 | 1.4 | 31.7 | 30.4 | 30.2 | 30.3 | 30.1 | 30.0 | 29.9 |
| 1800.00 | 21.5 | -26.5 | -15.1 | -29.7 | 1.2 | 0.7 | 20.6 | 22.1 | 1.5 | 29.7 | 30.0 | 29.9 | 30.0 | 29.9 | 29.7 | 29.6 |
| 1900.00 | 21.5 | -26.6 | -14.8 | -30.4 | 1.2 | 0.7 | 20.6 | 22.1 | 1.5 | 29.9 | 29.5 | 29.6 | 29.4 | 29.4 | 29.2 | 29.1 |
| 2000.00 | 21.5 | -26.7 | -14.3 | -27.5 | 1.2 | 0.7 | 20.4 | 22.0 | 1.6 | 30.2 | 30.0 | 29.7 | 29.6 | 29.7 | 29.4 | 29.3 |
| 2100.00 | 21.5 | -26.7 | -13.8 | -24.8 | 1.2 | 0.7 | 20.5 | 22.2 | 1.6 | 30.1 | 30.0 | 29.5 | 29.8 | 29.5 | 29.3 | 29.2 |
| 2200.00 | 21.5 | -26.8 | -13.3 | -22.5 | 1.2 | 0.7 | 20.3 | 22.1 | 1.6 | 29.7 | 29.4 | 29.6 | 29.6 | 29.5 | 29.3 | 29.2 |
| 2300.00 | 21.5 | -26.9 | -12.8 | -20.6 | 1.2 | 0.8 | 20.3 | 22.2 | 1.6 | 30.6 | 29.5 | 29.2 | 29.6 | 29.4 | 29.3 | 29.2 |
| 2400.00 | 21.5 | -27.1 | -12.4 | -19.0 | 1.2 | 0.8 | 20.3 | 22.4 | 1.6 | 28.5 | 27.7 | 27.9 | 27.7 | 27.5 | 27.3 | 27.2 |
| 2500.00 | 21.4 | -27.1 | -12.0 | -17.9 | 1.2 | 0.8 | 20.1 | 22.4 | 1.6 | 27.6 | 27.5 | 27.7 | 27.7 | 27.5 | 27.2 | 27.1 |
| 2600.00 | 21.4 | -27.3 | -11.6 | -16.9 | 1.2 | 0.8 | 19.9 | 22.5 | 1.7 | 28.1 | 27.9 | 27.7 | 27.6 | 27.5 | 27.3 | 27.1 |
| 2700.00 | 21.4 | -27.4 | -11.3 | -16.2 | 1.2 | 0.8 | 19.4 | 22.0 | 1.7 | 27.7 | 28.1 | 27.9 | 27.8 | 27.6 | 27.4 | 27.2 |
| 2800.00 | 21.3 | -27.5 | -11.0 | -15.5 | 1.2 | 0.8 | 19.3 | 21.8 | 1.8 | 27.9 | 27.4 | 27.3 | 27.2 | 27.0 | 26.8 | 26.6 |
| 2900.00 | 21.3 | -27.6 | -10.6 | -14.7 | 1.2 | 0.8 | 19.0 | 21.7 | 1.8 | 27.8 | | 27.7 | 27.7 | 27.3 | 27.1 | 26.8 |
| 3000.00 | 21.2 | -27.7 | -10.3 | -14.1 | 1.2 | 0.8 | 19.2 | 22.0 | 1.8 | 26.1 | 26.4 | 26.3 | 26.3 | 26.0 | 25.7 | 25.4 |
| 3100.00 | 21.2 | -27.8 | -10.0 | -13.7 | 1.2 | 0.8 | 19.1 | 22.4 | 1.8 | 26.2 | 26.3 | 26.5 | 26.3 | 26.0 | 25.7 | 25.5 |
| 3200.00 | 21.2 | -27.8 | -9.8 | -13.4 | 1.2 | 0.8 | 19.0 | 22.2 | 1.8 | 27.0 | 27.1 | 27.0 | 26.9 | 26.6 | 26.4 | 26.2 |
| 3300.00 | 21.2 | -27.8 | -9.7 | -13.2 | 1.2 | 0.8 | 18.9 | 22.1 | 1.8 | 26.4 | 26.6 | 26.5 | 26.3 | 26.2 | 25.9 | 25.7 |
| 3400.00 | 21.2 | -27.9 | -9.6 | -13.0 | 1.2 | 0.8 | 18.8 | 22.0 | 1.8 | 26.7 | 27.1 | 26.9 | 26.8 | 26.6 | 26.4 | 26.2 |
| 3500.00 | 21.2 | -27.9 | -9.6 | -13.0 | 1.2 | 0.8 | 18.8 | 22.1 | 1.8 | 26.3 | 26.7 | 26.4 | 26.3 | 26.1 | 25.8 | 25.7 |
| 3600.00 | 21.3 | -27.9 | -9.6 | -13.1 | 1.2 | 0.8 | 18.8 | 22.3 | 1.7 | 26.3 | 26.5 | 26.5 | 26.4 | 26.2 | 26.0 | 25.8 |
| 3700.00 | 21.3 | -27.9 | -9.6 | -13.2 | 1.2 | 0.8 | 19.0 | 22.2 | 1.7 | 27.5 | 27.8 | 27.4 | 27.4 | 27.3 | 27.1 | 26.8 |
| 3800.00 | 21.3 | -27.9 | -9.8 | -13.4 | 1.2 | 0.8 | 19.3 | 22.2 | 1.7 | 26.7 | 27.1 | 27.1 | 26.9 | 26.7 | 26.5 | 26.3 |
| 3900.00 | 21.4 | -28.0 | -9.9 | -13.6 | 1.2 | 0.8 | 19.5 | 22.3 | 1.7 | 26.8 | 27.2 | 26.6 | 26.7 | 26.5 | 26.2 | 25.9 |
| 4000.00 | 21.4 | -28.0 | -10.1 | -13.9 | 1.2 | 0.8 | 19.5 | 22.5 | 1.7 | 26.9 | 27.2 | 26.6 | 26.8 | 26.6 | 26.4 | 26.1 |
| 4100.00 | 21.4 | -28.0 | -10.4 | -14.3 | 1.2 | 0.8 | 19.5 | 22.5 | 1.7 | 26.8 | 26.2 | 26.3 | 26.1 | 25.9 | 25.6 | 25.3 |
| 4200.00 | 21.5 | -28.0 | -10.6 | -14.9 | 1.2 | 0.8 | 19.7 | 22.4 | 1.7 | 26.6 | 26.8 | 26.4 | 26.2 | 26.1 | 25.8 | 25.5 |
| 4300.00 | 21.6 | -28.2 | -10.9 | -15.2 | 1.3 | 0.8 | 19.6 | 22.6 | 1.7 | 26.4 | 26.7 | 26.5 | 26.3 | 26.2 | 25.9 | 25.5 |
| 4400.00 | 21.6 | -28.1 | -11.4 | -15.8 | 1.3 | 0.8 | 19.6 | 22.8 | 1.7 | 26.7 | 26.7 | 26.5 | 26.3 | 26.1 | 25.8 | 25.4 |
| 4500.00 | 21.7 | -28.1 | -11.8 | -16.4 | 1.3 | 0.8 | 19.3 | 23.0 | 1.7 | 26.4 | 26.4 | 26.2 | 26.0 | 25.8 | 25.4 | 25.1 |
| 4600.00 | 21.7 | -28.3 | -12.4 | -17.0 | 1.3 | 0.8 | 18.7 | 23.0 | 1.6 | 26.1 | 26.2 | 25.9 | 25.7 | 25.5 | 25.1 | 24.7 |
| 4700.00 | 21.8 | -28.2 | -13.0 | -18.0 | 1.3 | 0.8 | 18.9 | 22.7 | 1.6 | 26.1 | 26.1 | 26.2 | 25.9 | 25.6 | 25.3 | 25.0 |
| 4800.00 | 21.9 | -28.3 | -13.4 | -18.4 | 1.3 | 0.8 | 19.3 | 22.4 | 1.7 | 26.3 | 26.1 | 26.4 | 26.3 | 26.1 | 25.8 | 25.5 |
| 4900.00 | 21.9 | -28.4 | -14.2 | -18.9 | 1.3 | 0.8 | 19.3 | 22.4 | 1.7 | 25.4 | 25.5 | 25.5 | 25.3 | 25.0 | 24.7 | 24.4 |
| 5000.00 | 21.9 | -28.4 | -14.8 | -20.0 | 1.3 | 0.8 | 19.5 | 22.4 | 1.7 | 25.5 | 25.4 | 25.1 | 25.1 | 24.8 | 24.5 | 24.3 |
| 5100.00 | 22.0 | -28.5 | -15.2 | -20.2 | 1.3 | 0.8 | 19.7 | 22.2 | 1.6 | 25.4 | 25.7 | 25.4 | 25.3 | 25.1 | 24.9 | 24.7 |
| 5200.00 | 22.0 | -28.6 | -16.2 | -20.9 | 1.3 | 0.8 | 19.8 | 22.1 | 1.7 | 25.7 | 25.8 | 25.9 | 25.8 | 25.6 | 25.5 | 25.4 |
| 5300.00 | 22.1 | -28.6 | -16.1 | -21.3 | 1.3 | 0.8 | 19.9 | 22.4 | 1.7 | 26.5 | 26.3 | 26.0 | 26.0 | 25.9 | 25.7 | 25.5 |
| 5400.00 | 22.1 | -28.8 | -16.3 | -20.8 | 1.3 | 0.8 | 19.5 | 22.5 | 1.7 | 25.5 | 25.4 | 25.3 | 25.1 | 24.9 | 24.6 | 24.5 |
| 5500.00 | 22.1 | -28.8 | -16.7 | -21.7 | 1.3 | 0.8 | 18.8 | 22.4 | 1.7 | 24.6 | 25.1 | 24.7 | 24.6 | 24.3 | 24.0 | 23.9 |
| 5600.00 | 22.2 | -28.9 | -15.5 | -21.1 | 1.3 | 0.8 | 18.2 | 22.2 | 1.7 | 24.5 | 24.7 | 24.6 | 24.5 | 24.1 | 23.6 | 23.4 |
| 5700.00 | 22.0 | -29.2 | -15.2 | -20.1 | 1.4 | 0.8 | 18.1 | 22.0 | 1.8 | 24.5 | 24.8 | 24.6 | 24.4 | 24.1 | 23.5 | 23.3 |
| 5800.00 | 22.1 | -29.0 | -14.6 | -20.4 | 1.3 | 0.8 | 18.1 | 21.7 | 1.8 | 24.1 | 24.4 | 24.3 | 23.9 | 23.6 | 23.1 | 23.0 |
| 5900.00 | 22.1 | -29.4 | -13.0 | -18.7 | 1.4 | 0.9 | 17.9 | 21.6 | 1.8 | 24.7 | 24.6 | 24.4 | 24.1 | 23.7 | 23.2 | 23.2 |
| 6000.00 | 21.9 | -29.4 | -12.9 | -18.3 | 1.4 | 0.9 | 17.7 | 21.1 | 2.0 | 24.3 | 24.0 | 23.7 | 23.4 | 23.0 | 22.5 | 22.7 |
| 6100.00 | 22.1 | -29.5 | -11.5 | -17.5 | 1.4 | 0.9 | 17.8 | 20.7 | 1.8 | 24.3 | 24.1 | 23.9 | 23.7 | 23.4 | 23.0 | 23.1 |
| 6200.00 | 21.9 | -30.0 | -10.4 | -15.7 | 1.4 | 0.9 | 17.8 | 20.2 | 1.9 | 23.8 | 23.7 | 23.5 | 23.3 | 23.0 | 22.7 | 22.9 |
| 6300.00 | 21.8 | -29.9 | -10.0 | -15.3 | 1.4 | 0.9 | 17.7 | 19.8 | 1.9 | 24.2 | 24.1 | 23.8 | 23.6 | 23.3 | 23.1 | 23.3 |
| 6400.00 | 21.8 | -30.2 | -8.8 | -14.0 | 1.4 | 0.9 | 17.7 | 19.5 | 1.9 | 22.9 | 23.0 | 22.8 | 22.6 | 22.4 | 22.2 | 22.7 |
| 6500.00 | 21.6 | -30.8 | -8.1 | -12.9 | 1.5 | 1.0 | 18.0 | 19.6 | 2.0 | 23.5 | 23.2 | 23.0 | 22.8 | 22.6 | 22.3 | 22.6 |
| 6600.00 | 21.5 | -30.8 | -7.6 | -12.4 | 1.5 | 1.0 | 18.2 | 19.7 | 1.9 | 23.6 | 23.6 | 23.5 | 23.2 | 23.0 | 22.7 | 22.9 |
| 6700.00 | 21.4 | -31.4 | -6.6 | -11.2 | 1.5 | 1.0 | 18.1 | 19.5 | 2.0 | 23.2 | 23.1 | 22.8 | 22.6 | 22.3 | 22.1 | 22.4 |
| 6800.00 | 21.0 | -31.9 | -6.2 | -10.4 | 1.5 | 1.0 | 18.2 | 19.4 | 2.0 | 22.9 | 23.1 | 22.9 | 22.6 | 22.4 | 22.2 | 22.5 |
| 6900.00 | 20.9 | -32.3 | -5.6 | -9.9 | 1.6 | 1.0 | 18.1 | 19.3 | 2.0 | 22.8 | 22.8 | 22.5 | 22.3 | 22.1 | 21.9 | 22.4 |
| 7000.00 | 20.5 | -33.1 | -5.0 | -9.0 | 1.6 | 1.0 | 18.4 | 19.4 | 2.1 | 21.8 | 21.7 | 21.4 | 21.2 | 20.9 | 21.0 | 21.8 |
| 7100.00 | 20.0 | -33.9 | -4.8 | -8.5 | 1.8 | 1.0 | 18.4 | 19.2 | 2.1 | 21.8 | 21.7 | 21.6 | 21.3 | 21.1 | 21.1 | 21.9 |
| 7200.00 | 19.7 | -34.5 | -4.3 | -7.9 | 1.8 | 1.1 | 18.1 | 18.9 | 2.1 | 22.3 | 22.1 | 21.8 | 21.7 | 21.4 | 21.4 | 22.1 |
| 7300.00 | 19.2 | -35.9 | -3.9 | -7.3 | 2.1 | 1.1 | 18.0 | 18.6 | 2.2 | 21.3 | 21.1 | 20.9 | 20.6 | 20.4 | 20.7 | 21.8 |
| 7400.00 | 18.6 | -37.0 | -3.9 | -7.0 | 2.4 | 1.1 | 17.6 | 18.2 | 2.2 | 21.2 | 21.1 | 20.9 | 20.6 | 20.4 | 20.7 | 21.9 |
| 7500.00 | 18.0 | -38.2 | -3.5 | -6.5 | 2.7 | 1.1 | 17.3 | 17.7 | 2.2 | 19.9 | 19.7 | 19.3 | 19.1 | 19.1 | 20.1 | 21.7 |
| 7600.00 | 17.1 | -40.4 | -3.5 | -6.2 | 3.6 | 1.1 | 17.1 | 17.3 | 2.3 | 20.7 | 20.4 | 20.0 | 19.7 | 19.6 | 20.3 | 21.8 |
| 7700.00 | 16.5 | -41.1 | -3.6 | -6.1 | 4.1 | 1.1 | 16.6 | 16.8 | 2.3 | 20.0 | 19.8 | 19.3 | 19.0 | 19.1 | 20.1 | 21.8 |
| 7800.00 | 15.7 | -44.2 | -3.3 | -5.7 | 5.8 | 1.1 | 15.8 | 16.1 | 2.3 | 19.0 | 18.8 | 18.4 | 18.2 | 18.7 | 20.0 | 21.8 |
| 7900.00 | 14.4 | -46.6 | -3.6 | -5.3 | 8.7 | 1.0 | 14.9 | 15.2 | 2.4 | 18.3 | 18.0 | 17.6 | 17.6 | 18.5 | 20.0 | 21.4 |
| 8000.00 | 13.3 | -47.7 | -3.5 | -5.1 | 10.7 | 1.0 | 13.8 | 14.1 | 2.5 | 16.2 | 15.9 | 15.8 | 16.5 | 18.0 | 19.6 | 18.7 |

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 68 mA, $I_{EN}$ = 2.06 mA @ Temperature = +25°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 37.8 | 37.7 | 37.7 | 37.6 | 37.5 | 37.2 | 36.9 |
| 1000.0 | 36.8 | 36.7 | 36.7 | 36.6 | 36.4 | 36.1 | 35.8 |
| 2000.0 | 35.4 | 35.1 | 35.0 | 34.8 | 34.6 | 34.2 | 33.9 |
| 4000.0 | 44.2 | 44.1 | 43.9 | 43.8 | 43.4 | 43.0 | 42.9 |
| 6000.0 | 32.1 | 32.0 | 31.7 | 31.3 | 30.9 | 30.4 | 30.2 |
| 8000.0 | 35.7 | 35.2 | 34.9 | 35.1 | 36.1 | 37.9 | 40.6 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ =73 mA, $I_{EN}$ = 2.05 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.4 | -29.8 | -9.8 | -8.9 | 1.4 | 0.8 | 18.6 | 22.1 | 1.6 | 25.5 | 25.7 | 25.5 | 25.3 | 25.1 | 24.9 | 24.5 |
| 5600.00 | 21.5 | -29.8 | -9.6 | -9.0 | 1.4 | 0.8 | 18.8 | 22.0 | 1.6 | 24.7 | 24.2 | 24.3 | 24.1 | 23.8 | 23.4 | 23.2 |
| 5700.00 | 21.5 | -29.6 | -10.0 | -9.2 | 1.4 | 0.8 | 18.0 | 22.0 | 1.6 | 24.8 | 24.8 | 24.5 | 24.4 | 24.1 | 23.6 | 23.2 |
| 5800.00 | 21.7 | -29.8 | -9.7 | -9.3 | 1.4 | 0.8 | 17.4 | 22.1 | 1.6 | 24.3 | 24.7 | 24.4 | 24.4 | 24.0 | 23.6 | 23.1 |
| 5900.00 | 21.7 | -29.7 | -10.0 | -9.6 | 1.4 | 0.8 | 17.3 | 21.6 | 1.6 | 24.3 | 24.1 | 23.9 | 23.7 | 23.4 | 22.9 | 22.6 |
| 6000.00 | 21.8 | -29.9 | -9.7 | -9.6 | 1.4 | 0.8 | 17.6 | 21.1 | 1.6 | 23.0 | 22.8 | 22.7 | 22.4 | 22.0 | 21.4 | 22.0 |
| 6100.00 | 21.8 | -29.8 | -10.0 | -10.0 | 1.4 | 0.8 | 17.9 | 21.1 | 1.6 | 23.8 | 23.7 | 23.7 | 23.5 | 23.2 | 22.8 | 22.9 |
| 6200.00 | 21.9 | -30.0 | -9.7 | -10.0 | 1.4 | 0.8 | 18.1 | 20.8 | 1.6 | 23.5 | 23.2 | 23.3 | 23.1 | 22.9 | 22.6 | 22.9 |
| 6300.00 | 22.0 | -30.0 | -10.0 | -10.4 | 1.4 | 0.8 | 18.3 | 21.2 | 1.6 | 24.7 | 24.6 | 24.4 | 24.3 | 24.2 | 24.0 | 24.0 |
| 6400.00 | 22.1 | -30.2 | -9.6 | -10.3 | 1.4 | 0.8 | 18.6 | 21.1 | 1.6 | 24.6 | 24.4 | 24.4 | 24.2 | 24.1 | 24.0 | 24.1 |
| 6500.00 | 22.0 | -30.1 | -10.0 | -10.8 | 1.4 | 0.8 | 18.7 | 21.0 | 1.6 | 24.8 | 24.6 | 24.4 | 24.4 | 24.3 | 24.2 | 24.2 |
| 6600.00 | 22.2 | -30.4 | -9.7 | -10.8 | 1.4 | 0.8 | 18.8 | 20.7 | 1.6 | 24.8 | 24.4 | 24.4 | 24.5 | 24.4 | 24.3 | 24.3 |
| 6700.00 | 22.1 | -30.4 | -10.1 | -11.3 | 1.4 | 0.8 | 18.4 | 20.3 | 1.6 | 24.6 | 24.5 | 24.4 | 24.4 | 24.4 | 24.3 | 24.4 |
| 6800.00 | 22.2 | -30.7 | -9.8 | -11.3 | 1.5 | 0.8 | 18.6 | 20.4 | 1.7 | 25.1 | 25.1 | 24.9 | 24.9 | 24.9 | 24.8 | 24.9 |
| 6900.00 | 22.2 | -30.7 | -10.2 | -11.9 | 1.5 | 0.9 | 18.9 | 20.6 | 1.7 | 25.1 | 25.2 | 25.0 | 25.1 | 25.1 | 25.2 | 25.3 |
| 7000.00 | 22.3 | -31.1 | -10.0 | -12.0 | 1.5 | 0.9 | 19.0 | 20.5 | 1.7 | 24.6 | 24.6 | 24.7 | 24.8 | 24.8 | 24.8 | 24.9 |
| 7100.00 | 22.3 | -31.0 | -10.5 | -12.7 | 1.5 | 0.9 | 19.0 | 20.5 | 1.7 | 25.0 | 25.1 | 25.0 | 25.1 | 25.1 | 25.1 | 25.2 |
| 7200.00 | 22.3 | -31.5 | -10.3 | -12.8 | 1.6 | 0.9 | 19.4 | 20.6 | 1.8 | 25.5 | 25.1 | 25.0 | 25.1 | 25.1 | 25.2 | 25.4 |
| 7300.00 | 22.2 | -31.5 | -10.8 | -13.7 | 1.6 | 0.9 | 19.3 | 20.6 | 1.8 | 24.7 | 24.7 | 24.5 | 24.6 | 24.7 | 24.8 | 25.1 |
| 7400.00 | 22.2 | -32.1 | -10.5 | -13.9 | 1.7 | 0.9 | 19.2 | 20.4 | 1.9 | 24.9 | 24.7 | 24.7 | 24.8 | 24.8 | 25.0 | 25.2 |
| 7500.00 | 22.1 | -32.2 | -11.0 | -15.1 | 1.8 | 0.9 | 18.7 | 20.1 | 1.9 | 25.0 | 24.8 | 24.7 | 24.8 | 25.0 | 25.2 | 25.6 |
| 7600.00 | 22.0 | -32.9 | -10.4 | -15.2 | 1.9 | 1.0 | 19.0 | 20.2 | 2.0 | 24.6 | 24.6 | 24.7 | 24.8 | 24.9 | 25.0 | 25.3 |
| 7700.00 | 21.8 | -33.2 | -10.7 | -16.8 | 2.0 | 1.0 | 19.0 | 20.1 | 2.1 | 23.6 | 23.5 | 23.4 | 23.5 | 23.6 | 23.8 | 24.3 |
| 7800.00 | 21.6 | -34.0 | -9.8 | -16.6 | 2.1 | 1.0 | 18.7 | 19.8 | 2.2 | 24.8 | 24.4 | 24.3 | 24.5 | 24.6 | 24.8 | 25.3 |
| 7900.00 | 21.3 | -34.4 | -9.8 | -18.3 | 2.3 | 1.0 | 18.4 | 19.5 | 2.3 | 24.5 | 24.3 | 24.5 | 24.5 | 24.6 | 24.9 | 25.3 |
| 8000.00 | 20.9 | -35.7 | -8.5 | -17.0 | 2.6 | 1.1 | 17.8 | 18.9 | 2.4 | 23.9 | 23.8 | 23.9 | 23.9 | 24.2 | 24.6 | 25.3 |
| 8100.00 | 20.4 | -36.0 | -8.2 | -17.3 | 2.8 | 1.1 | 18.0 | 19.0 | 2.5 | 24.0 | 23.7 | 23.8 | 23.9 | 24.1 | 24.4 | 25.0 |
| 8200.00 | 19.7 | -37.7 | -6.8 | -14.6 | 3.3 | 1.2 | 18.0 | 18.9 | 2.7 | 22.9 | | 23.0 | 23.1 | 23.3 | 23.8 | 24.4 |
| 8300.00 | 19.2 | -37.7 | -6.5 | -13.8 | 3.4 | 1.2 | 18.1 | 18.8 | 2.8 | 23.2 | 23.5 | 23.4 | 23.4 | 23.6 | 24.0 | 24.7 |
| 8400.00 | 18.0 | -40.6 | -5.3 | -11.2 | 4.7 | 1.2 | 17.9 | 18.5 | 2.9 | 23.6 | 23.5 | 23.5 | 23.6 | 23.7 | 24.1 | 24.7 |
| 8500.00 | 17.4 | -40.7 | -4.8 | -10.3 | 4.7 | 1.2 | 17.5 | 18.0 | 3.1 | 22.5 | 22.4 | 22.4 | 22.5 | 22.8 | 23.4 | 23.6 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 36.1 | 36.0 | 35.9 | 35.6 | 35.2 | 34.9 | 34.6 |
| 6000.0 | 33.1 | 33.0 | 32.8 | 32.4 | 32.0 | 31.5 | 31.2 |
| 7000.0 | 43.6 | 43.4 | 43.2 | 42.9 | 42.6 | 42.3 | 42.3 |
| 8000.0 | 51.6 | 51.4 | 51.2 | 50.8 | 50.5 | 50.2 | 50.3 |
| 8500.0 | 59.9 | 59.6 | 59.3 | 59.0 | 58.6 | 58.7 | 59.4 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.8 | -4.0 | -8.6 | 1.1 | 0.8 | 3.3 |
| 300.00 | -2.3 | -2.4 | -6.7 | -11.5 | 1.0 | 0.7 | 2.1 |
| 400.00 | -1.7 | -1.8 | -9.3 | -13.7 | 1.0 | 0.5 | 1.5 |
| 500.00 | -1.4 | -1.4 | -12.0 | -15.6 | 1.0 | 0.5 | 1.4 |
| 600.00 | -1.2 | -1.3 | -15.0 | -17.0 | 1.0 | 0.4 | 1.3 |
| 700.00 | -1.2 | -1.2 | -18.2 | -18.1 | 1.0 | 0.4 | 1.2 |
| 800.00 | -1.1 | -1.2 | -22.3 | -18.4 | 1.0 | 0.4 | 1.3 |
| 900.00 | -1.1 | -1.2 | -27.9 | -18.2 | 1.0 | 0.4 | 1.2 |
| 1000.00 | -1.1 | -1.2 | -33.3 | -17.8 | 1.0 | 0.4 | 1.1 |
| 1100.00 | -1.1 | -1.2 | -27.6 | -17.4 | 1.0 | 0.4 | 1.3 |
| 1200.00 | -1.1 | -1.2 | -23.5 | -17.1 | 1.0 | 0.4 | 1.2 |
| 1300.00 | -1.1 | -1.2 | -20.8 | -16.6 | 1.0 | 0.4 | 1.7 |
| 1400.00 | -1.1 | -1.2 | -19.0 | -16.1 | 1.0 | 0.4 | 1.2 |
| 1500.00 | -1.2 | -1.3 | -17.5 | -15.7 | 1.0 | 0.4 | 1.2 |
| 1600.00 | -1.2 | -1.3 | -16.4 | -15.5 | 1.0 | 0.4 | 1.4 |
| 1700.00 | -1.2 | -1.4 | -15.6 | -15.5 | 1.0 | 0.5 | 1.2 |
| 1800.00 | -1.3 | -1.4 | -14.9 | -15.4 | 1.0 | 0.5 | 1.6 |
| 1900.00 | -1.3 | -1.5 | -14.4 | -15.2 | 1.0 | 0.5 | 1.3 |
| 2000.00 | -1.3 | -1.5 | -14.0 | -15.1 | 1.0 | 0.5 | 1.7 |
| 2100.00 | -1.4 | -1.6 | -13.7 | -15.3 | 1.0 | 0.5 | 1.5 |
| 2200.00 | -1.4 | -1.6 | -13.5 | -15.6 | 1.0 | 0.5 | 1.5 |
| 2300.00 | -1.4 | -1.6 | -13.4 | -15.8 | 1.0 | 0.5 | 1.6 |
| 2400.00 | -1.4 | -1.7 | -13.3 | -16.2 | 1.0 | 0.5 | 1.9 |
| 2500.00 | -1.5 | -1.7 | -13.3 | -16.6 | 1.0 | 0.6 | 2.0 |
| 2600.00 | -1.5 | -1.8 | -13.4 | -17.3 | 1.0 | 0.6 | 2.1 |
| 2700.00 | -1.5 | -1.8 | -13.5 | -18.1 | 1.1 | 0.6 | 1.9 |
| 2800.00 | -1.5 | -1.9 | -13.7 | -19.0 | 1.1 | 0.6 | 2.1 |
| 2900.00 | -1.5 | -1.9 | -13.9 | -19.8 | 1.1 | 0.6 | 2.3 |
| 3000.00 | -1.5 | -1.9 | -14.0 | -21.0 | 1.1 | 0.6 | 2.2 |
| 3100.00 | -1.6 | -1.9 | -14.1 | -22.7 | 1.1 | 0.6 | 2.0 |
| 3200.00 | -1.6 | -1.9 | -14.2 | -24.7 | 1.1 | 0.6 | 2.1 |
| 3300.00 | -1.6 | -1.9 | -14.3 | -26.8 | 1.1 | 0.6 | 1.8 |
| 3400.00 | -1.6 | -1.9 | -14.4 | -29.4 | 1.1 | 0.6 | 2.1 |
| 3500.00 | -1.6 | -1.9 | -14.3 | -30.9 | 1.1 | 0.6 | 1.9 |
| 3600.00 | -1.6 | -1.9 | -14.3 | -28.2 | 1.1 | 0.6 | 1.7 |
| 3700.00 | -1.6 | -1.9 | -14.2 | -25.1 | 1.1 | 0.6 | 2.3 |
| 3800.00 | -1.6 | -1.9 | -14.0 | -22.7 | 1.1 | 0.6 | 1.9 |
| 3900.00 | -1.6 | -1.9 | -13.8 | -21.0 | 1.1 | 0.6 | 1.9 |
| 4000.00 | -1.7 | -2.0 | -13.5 | -19.3 | 1.1 | 0.6 | 2.0 |
| 4100.00 | -1.7 | -2.0 | -13.2 | -17.7 | 1.1 | 0.6 | 1.6 |
| 4200.00 | -1.7 | -2.0 | -12.8 | -16.7 | 1.1 | 0.6 | 2.2 |
| 4300.00 | -1.7 | -2.0 | -12.6 | -15.8 | 1.1 | 0.6 | 2.0 |
| 4400.00 | -1.7 | -2.1 | -12.3 | -15.0 | 1.1 | 0.6 | 1.7 |
| 4500.00 | -1.8 | -2.1 | -12.0 | -14.3 | 1.1 | 0.6 | 2.0 |
| 4600.00 | -1.8 | -2.2 | -11.8 | -13.6 | 1.1 | 0.6 | 1.9 |
| 4700.00 | -1.8 | -2.2 | -11.6 | -13.2 | 1.1 | 0.6 | 2.3 |
| 4800.00 | -1.8 | -2.2 | -11.4 | -12.9 | 1.1 | 0.6 | 1.7 |
| 4900.00 | -1.9 | -2.2 | -11.3 | -12.5 | 1.1 | 0.6 | 2.3 |
| 5000.00 | -1.8 | -2.3 | -11.1 | -12.1 | 1.1 | 0.6 | 2.6 |
| 5100.00 | -1.9 | -2.3 | -11.0 | -11.9 | 1.1 | 0.6 | 1.8 |
| 5200.00 | -1.9 | -2.3 | -10.9 | -11.7 | 1.1 | 0.6 | 3.3 |
| 5300.00 | -1.8 | -2.3 | -10.9 | -11.6 | 1.1 | 0.6 | 1.8 |
| 5400.00 | -1.9 | -2.4 | -10.9 | -11.5 | 1.1 | 0.6 | 1.8 |
| 5500.00 | -1.8 | -2.3 | -10.9 | -11.3 | 1.1 | 0.6 | 2.0 |
| 5600.00 | -1.8 | -2.3 | -11.1 | -11.4 | 1.1 | 0.6 | 2.4 |
| 5700.00 | -1.8 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 2.6 |
| 5800.00 | -1.8 | -2.3 | -11.3 | -11.4 | 1.1 | 0.6 | 2.6 |
| 5900.00 | -1.8 | -2.3 | -11.6 | -11.6 | 1.1 | 0.6 | 2.7 |
| 6000.00 | -1.8 | -2.3 | -11.7 | -11.5 | 1.1 | 0.6 | 2.1 |
| 6100.00 | -1.7 | -2.3 | -12.0 | -11.7 | 1.1 | 0.6 | 2.0 |
| 6200.00 | -1.7 | -2.3 | -12.3 | -12.0 | 1.1 | 0.6 | 2.2 |
| 6300.00 | -1.7 | -2.2 | -12.6 | -12.1 | 1.1 | 0.6 | 2.4 |
| 6400.00 | -1.6 | -2.2 | -13.0 | -12.3 | 1.1 | 0.6 | 1.8 |
| 6500.00 | -1.7 | -2.3 | -13.2 | -12.4 | 1.1 | 0.6 | 2.1 |
| 6600.00 | -1.6 | -2.2 | -13.4 | -12.4 | 1.1 | 0.6 | 1.2 |
| 6700.00 | -1.6 | -2.2 | -13.9 | -12.8 | 1.1 | 0.6 | 1.9 |
| 6800.00 | -1.6 | -2.3 | -14.0 | -12.9 | 1.1 | 0.6 | 1.8 |
| 6900.00 | -1.6 | -2.2 | -14.1 | -12.8 | 1.1 | 0.6 | 2.0 |
| 7000.00 | -1.6 | -2.3 | -14.3 | -12.9 | 1.1 | 0.6 | 2.4 |
| 7100.00 | -1.7 | -2.3 | -14.1 | -12.9 | 1.1 | 0.6 | 2.4 |
| 7200.00 | -1.7 | -2.3 | -14.0 | -12.8 | 1.1 | 0.6 | 1.4 |
| 7300.00 | -1.7 | -2.4 | -13.8 | -12.6 | 1.1 | 0.6 | 1.8 |
| 7400.00 | -1.8 | -2.4 | -13.3 | -12.2 | 1.1 | 0.6 | 2.5 |
| 7500.00 | -1.8 | -2.5 | -12.9 | -12.0 | 1.1 | 0.6 | 3.0 |
| 7600.00 | -2.0 | -2.6 | -12.5 | -11.7 | 1.1 | 0.6 | 2.5 |
| 7700.00 | -2.0 | -2.7 | -11.7 | -11.1 | 1.1 | 0.6 | 2.6 |
| 7800.00 | -2.1 | -2.8 | -11.3 | -10.7 | 1.1 | 0.6 | 2.3 |
| 7900.00 | -2.3 | -3.0 | -10.7 | -10.1 | 1.2 | 0.6 | 1.9 |
| 8000.00 | -2.4 | -3.0 | -9.8 | -9.5 | 1.1 | 0.6 | 2.2 |

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 41.1 | 40.5 | 37.6 | 32.9 | 27.7 | 21.2 | 17.1 |
| 1000.0 | 43.0 | 41.4 | 37.9 | 33.0 | 26.8 | 18.2 | 15.5 |
| 2000.0 | 44.9 | 44.0 | 42.5 | 38.9 | 33.9 | 26.9 | 18.6 |
| 4000.0 | 40.3 | 42.3 | 43.0 | 42.7 | 40.8 | 36.4 | 30.3 |
| 6000.0 | 43.3 | 44.0 | 44.5 | 43.6 | 40.0 | 34.3 | 26.2 |
| 8000.0 | 43.3 | 44.4 | 46.2 | 45.4 | 41.0 | 35.4 | 27.2 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 72.1 | 71.9 | 71.5 | 70.7 | 68.0 | 59.2 | 47.4 |
| 1000.0 | 71.0 | 71.2 | 71.4 | 71.6 | 69.7 | 55.2 | 60.7 |
| 2000.0 | 70.7 | 70.6 | 70.6 | 70.6 | 70.2 | 67.2 | 55.2 |
| 4000.0 | 74.8 | 74.7 | 74.7 | 74.7 | 74.9 | 75.1 | 74.9 |
| 6000.0 | 73.8 | 73.6 | 73.4 | 73.2 | 72.8 | 72.0 | 67.8 |
| 8000.0 | 84.6 | 84.6 | 84.5 | 84.5 | 84.3 | 83.6 | 80.9 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 15.0 | 10.8 |
| 1000.0 | 13.1 | 10.9 |
| 2000.0 | 15.3 | 12.8 |
| 4000.0 | 17.7 | 14.9 |
| 6000.0 | 18.0 | 14.7 |
| 8000.0 | 18.6 | 13.5 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.6 | -2.2 | -20.6 | -18.1 | 1.1 | 0.6 | 2.3 |
| 5600.00 | -1.6 | -2.2 | -21.2 | -18.1 | 1.1 | 0.6 | 2.2 |
| 5700.00 | -1.6 | -2.2 | -21.0 | -17.8 | 1.1 | 0.6 | 2.1 |
| 5800.00 | -1.6 | -2.2 | -20.4 | -17.2 | 1.1 | 0.6 | 2.0 |
| 5900.00 | -1.6 | -2.3 | -19.3 | -16.6 | 1.1 | 0.6 | 1.9 |
| 6000.00 | -1.6 | -2.3 | -18.5 | -15.8 | 1.1 | 0.6 | 2.1 |
| 6100.00 | -1.6 | -2.3 | -17.3 | -15.0 | 1.1 | 0.6 | 2.2 |
| 6200.00 | -1.6 | -2.3 | -16.4 | -14.3 | 1.1 | 0.6 | 2.4 |
| 6300.00 | -1.6 | -2.4 | -15.3 | -13.6 | 1.1 | 0.6 | 2.5 |
| 6400.00 | -1.7 | -2.4 | -14.5 | -13.0 | 1.1 | 0.6 | 2.0 |
| 6500.00 | -1.7 | -2.5 | -13.7 | -12.3 | 1.1 | 0.6 | 2.4 |
| 6600.00 | -1.7 | -2.5 | -13.0 | -11.8 | 1.1 | 0.6 | 2.3 |
| 6700.00 | -1.8 | -2.6 | -12.1 | -11.2 | 1.1 | 0.6 | 2.2 |
| 6800.00 | -1.9 | -2.7 | -11.5 | -10.7 | 1.1 | 0.6 | 2.2 |
| 6900.00 | -1.9 | -2.7 | -10.8 | -10.1 | 1.1 | 0.6 | 2.4 |
| 7000.00 | -2.0 | -2.8 | -10.2 | -9.6 | 1.1 | 0.6 | 2.4 |
| 7100.00 | -2.1 | -2.9 | -9.6 | -9.1 | 1.1 | 0.6 | 2.3 |
| 7200.00 | -2.3 | -3.0 | -9.1 | -8.7 | 1.1 | 0.6 | 2.3 |
| 7300.00 | -2.4 | -3.2 | -8.5 | -8.2 | 1.1 | 0.6 | 2.4 |
| 7400.00 | -2.5 | -3.3 | -8.0 | -7.8 | 1.1 | 0.6 | 2.5 |
| 7500.00 | -2.7 | -3.5 | -7.5 | -7.3 | 1.1 | 0.6 | 2.6 |
| 7600.00 | -2.8 | -3.6 | -7.0 | -7.0 | 1.1 | 0.6 | 2.5 |
| 7700.00 | -3.0 | -3.8 | -6.6 | -6.5 | 1.1 | 0.6 | 2.6 |
| 7800.00 | -3.2 | -3.9 | -6.2 | -6.2 | 1.1 | 0.6 | 2.4 |
| 7900.00 | -3.4 | -4.2 | -5.8 | -5.8 | 1.1 | 0.6 | 3.1 |
| 8000.00 | -3.6 | -4.3 | -5.5 | -5.6 | 1.2 | 0.6 | 3.5 |
| 8100.00 | -3.8 | -4.5 | -5.1 | -5.2 | 1.2 | 0.6 | 3.6 |
| 8200.00 | -4.0 | -4.7 | -4.8 | -5.0 | 1.2 | 0.6 | 3.4 |
| 8300.00 | -4.2 | -4.9 | -4.5 | -4.7 | 1.2 | 0.6 | 2.9 |
| 8400.00 | -4.4 | -5.1 | -4.3 | -4.6 | 1.2 | 0.6 | 3.6 |
| 8500.00 | -4.6 | -5.3 | -4.0 | -4.2 | 1.2 | 0.6 | 2.6 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 17.5 | 14.1 |
| 6000.0 | 19.1 | 15.0 |
| 7000.0 | 20.6 | 16.0 |
| 8000.0 | 20.9 | 14.6 |
| 8500.0 | 19.4 | 13.1 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.1 | 70.0 | 69.8 | 69.7 | 69.3 | 68.4 | 64.6 | 42.1 | 42.5 | 43.1 | 42.4 | 41.6 | 38.6 | 32.9 |
| 6000.0 | 76.9 | 76.7 | 76.6 | 76.4 | 76.1 | 75.8 | 74.9 | 40.8 | 41.5 | 42.3 | 43.1 | 41.5 | 37.2 | 29.6 |
| 7000.0 | 88.7 | 88.6 | 88.5 | 88.3 | 88.1 | 87.7 | 86.9 | 41.4 | 40.4 | 41.7 | 42.8 | 40.4 | 36.0 | 30.3 |
| 8000.0 | 84.8 | 84.8 | 84.8 | 84.7 | 84.6 | 84.2 | 83.4 | 41.3 | 43.1 | 43.5 | 41.4 | 41.2 | 39.5 | 34.6 |
| 8500.0 | 92.1 | 92.0 | 92.0 | 91.8 | 91.7 | 94.0 | 90.3 | 42.4 | 43.5 | 44.1 | 42.9 | 38.0 | 30.4 | 19.0 |

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 75 mA, $I_{EN}$ = 2.17 mA @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.0 | -33.1 | -1.8 | -4.5 | 1.4 | 0.9 | 19.6 | 21.3 | 4.6 | 30.7 | 31.2 | 31.5 | 31.3 | 31.1 | 30.9 | 30.7 |
| 300.00 | 19.8 | -28.2 | -5.7 | -8.7 | 1.2 | 0.8 | 19.8 | 21.4 | 2.4 | 29.9 | 32.5 | 30.8 | 31.0 | 31.2 | 31.0 | 30.7 |
| 400.00 | 21.2 | -26.7 | -11.8 | -14.8 | 1.2 | 0.7 | 20.4 | 21.8 | 1.8 | 31.7 | 32.9 | 33.2 | 32.8 | 32.3 | 32.1 | 31.9 |
| 500.00 | 21.6 | -26.4 | -17.8 | -18.2 | 1.1 | 0.7 | 20.8 | 21.8 | 1.6 | 33.2 | 31.5 | 33.4 | 33.1 | 32.6 | 32.7 | 32.4 |
| 600.00 | 21.7 | -26.3 | -19.1 | -17.3 | 1.1 | 0.6 | 21.0 | 21.9 | 1.5 | 33.6 | 34.8 | 33.9 | 34.0 | 33.7 | 33.4 | 33.2 |
| 700.00 | 21.7 | -26.3 | -17.5 | -16.3 | 1.1 | 0.6 | 21.2 | 22.2 | 1.4 | 30.5 | 32.8 | 33.1 | 32.6 | 32.4 | 32.4 | 32.1 |
| 800.00 | 21.7 | -26.3 | -16.4 | -15.8 | 1.1 | 0.6 | 21.3 | 22.2 | 1.4 | 32.8 | 32.9 | 33.9 | 33.5 | 33.6 | 33.2 | 33.0 |
| 900.00 | 21.7 | -26.4 | -15.8 | -15.7 | 1.1 | 0.6 | 21.4 | 22.4 | 1.4 | 32.5 | 33.3 | 33.6 | 33.2 | 33.1 | 32.9 | 32.7 |
| 1000.00 | 21.7 | -26.4 | -15.4 | -15.9 | 1.1 | 0.6 | 21.4 | 22.4 | 1.4 | 32.5 | 32.6 | 33.3 | 33.0 | 32.9 | 32.9 | 32.7 |
| 1100.00 | 21.7 | -26.5 | -15.4 | -16.4 | 1.1 | 0.7 | 21.3 | 22.3 | 1.4 | 32.0 | 32.7 | 33.2 | 33.1 | 33.0 | 32.8 | 32.6 |
| 1200.00 | 21.7 | -26.5 | -15.4 | -17.0 | 1.1 | 0.7 | 21.5 | 22.5 | 1.4 | 32.8 | 32.4 | 32.8 | 32.4 | 32.4 | 32.3 | 32.2 |
| 1300.00 | 21.7 | -26.5 | -15.5 | -17.9 | 1.1 | 0.7 | 21.5 | 22.5 | 1.4 | 32.3 | 31.8 | 32.3 | 32.3 | 32.2 | 32.0 | 31.9 |
| 1400.00 | 21.7 | -26.6 | -15.7 | -19.0 | 1.1 | 0.7 | 21.3 | 22.4 | 1.4 | 32.5 | 32.4 | 32.9 | 32.2 | 32.2 | 32.0 | 32.0 |
| 1500.00 | 21.7 | -26.6 | -15.8 | -20.4 | 1.1 | 0.7 | 21.4 | 22.6 | 1.4 | 32.6 | 31.3 | 31.2 | 31.5 | 31.4 | 31.2 | 31.0 |
| 1600.00 | 21.7 | -26.7 | -15.8 | -22.3 | 1.2 | 0.7 | 21.4 | 22.5 | 1.4 | 31.1 | 31.5 | 31.6 | 31.3 | 31.3 | 31.2 | 31.1 |
| 1700.00 | 21.7 | -26.7 | -15.5 | -24.0 | 1.2 | 0.7 | 21.5 | 22.7 | 1.4 | 32.2 | 31.4 | 31.8 | 31.6 | 31.5 | 31.2 | 31.1 |
| 1800.00 | 21.7 | -26.8 | -15.5 | -26.9 | 1.2 | 0.7 | 21.2 | 22.6 | 1.5 | 30.4 | 30.5 | 31.6 | 31.1 | 31.1 | 31.0 | 30.9 |
| 1900.00 | 21.8 | -26.8 | -15.2 | -29.8 | 1.2 | 0.7 | 21.2 | 22.6 | 1.5 | 31.2 | 31.3 | 30.8 | 30.8 | 30.7 | 30.5 | 30.3 |
| 2000.00 | 21.7 | -26.9 | -14.9 | -29.6 | 1.2 | 0.7 | 21.0 | 22.5 | 1.5 | 30.8 | 30.5 | 31.3 | 31.0 | 30.9 | 30.8 | 30.6 |
| 2100.00 | 21.7 | -27.0 | -14.4 | -27.1 | 1.2 | 0.7 | 21.1 | 22.7 | 1.6 | 31.3 | 31.0 | 30.6 | 31.1 | 30.7 | 30.6 | 30.5 |
| 2200.00 | 21.7 | -27.0 | -13.9 | -24.5 | 1.2 | 0.7 | 20.9 | 22.6 | 1.6 | 31.0 | 31.1 | 31.0 | 30.7 | 30.8 | 30.6 | 30.5 |
| 2300.00 | 21.7 | -27.1 | -13.4 | -22.2 | 1.2 | 0.7 | 20.9 | 22.7 | 1.6 | 29.5 | 30.7 | 31.2 | 30.6 | 30.6 | 30.5 | 30.4 |
| 2400.00 | 21.7 | -27.2 | -12.9 | -20.4 | 1.2 | 0.8 | 20.8 | 22.9 | 1.7 | 28.5 | 28.8 | 28.9 | 28.9 | 28.8 | 28.6 | 28.4 |
| 2500.00 | 21.7 | -27.3 | -12.6 | -19.1 | 1.2 | 0.8 | 20.6 | 22.9 | 1.7 | 28.4 | 28.7 | 29.0 | 28.9 | 28.7 | 28.5 | 28.3 |
| 2600.00 | 21.6 | -27.4 | -12.2 | -18.0 | 1.2 | 0.8 | 20.3 | 23.0 | 1.7 | 29.1 | 28.6 | 29.2 | 29.1 | 28.8 | 28.6 | 28.3 |
| 2700.00 | 21.6 | -27.5 | -11.8 | -17.1 | 1.2 | 0.8 | 19.8 | 22.5 | 1.7 | 28.7 | 29.4 | 29.0 | 28.9 | 29.0 | 28.7 | 28.4 |
| 2800.00 | 21.6 | -27.7 | -11.5 | -16.3 | 1.2 | 0.8 | 19.7 | 22.3 | 1.8 | 28.6 | 28.7 | 28.4 | 28.6 | 28.3 | 28.1 | 27.8 |
| 2900.00 | 21.5 | -27.8 | -11.1 | -15.4 | 1.2 | 0.8 | 19.4 | 22.1 | 1.8 | 29.5 | | 29.0 | 28.9 | 28.7 | 28.4 | 28.2 |
| 3000.00 | 21.5 | -27.8 | -10.7 | -14.8 | 1.2 | 0.8 | 19.7 | 22.5 | 1.8 | 27.3 | 27.8 | 27.6 | 27.5 | 27.3 | 27.0 | 26.6 |
| 3100.00 | 21.5 | -27.9 | -10.4 | -14.3 | 1.2 | 0.8 | 19.6 | 22.8 | 1.8 | 27.5 | 27.3 | 27.6 | 27.5 | 27.3 | 27.0 | 26.6 |
| 3200.00 | 21.5 | -27.9 | -10.2 | -14.0 | 1.2 | 0.8 | 19.6 | 22.7 | 1.8 | 27.6 | 28.0 | 28.3 | 28.1 | 27.9 | 27.7 | 27.4 |
| 3300.00 | 21.5 | -27.9 | -10.0 | -13.8 | 1.2 | 0.8 | 19.4 | 22.5 | 1.7 | 27.9 | 27.5 | 27.8 | 27.5 | 27.5 | 27.2 | 26.9 |
| 3400.00 | 21.5 | -28.0 | -9.9 | -13.6 | 1.2 | 0.8 | 19.3 | 22.3 | 1.8 | 27.4 | 28.2 | 28.2 | 28.0 | 27.9 | 27.7 | 27.4 |
| 3500.00 | 21.5 | -28.1 | -9.9 | -13.5 | 1.2 | 0.8 | 19.3 | 22.5 | 1.8 | 27.7 | 27.5 | 27.6 | 27.6 | 27.4 | 27.1 | 26.8 |
| 3600.00 | 21.5 | -28.1 | -9.9 | -13.7 | 1.2 | 0.8 | 19.3 | 22.7 | 1.7 | 27.8 | 28.0 | 27.7 | 27.6 | 27.5 | 27.2 | 27.0 |
| 3700.00 | 21.6 | -28.1 | -9.9 | -13.8 | 1.2 | 0.8 | 19.6 | 22.7 | 1.7 | 28.0 | 29.3 | 28.7 | 28.5 | 28.5 | 28.3 | 28.1 |
| 3800.00 | 21.6 | -28.1 | -10.1 | -14.0 | 1.2 | 0.8 | 19.9 | 22.7 | 1.7 | 28.2 | 28.1 | 28.2 | 28.1 | 28.0 | 27.8 | 27.6 |
| 3900.00 | 21.6 | -28.1 | -10.2 | -14.2 | 1.2 | 0.8 | 20.1 | 22.7 | 1.7 | 28.7 | 28.1 | 28.1 | 27.9 | 27.7 | 27.5 | 27.2 |
| 4000.00 | 21.7 | -28.2 | -10.4 | -14.5 | 1.2 | 0.8 | 20.1 | 22.9 | 1.7 | 28.5 | 27.7 | 28.0 | 27.9 | 27.9 | 27.6 | 27.4 |
| 4100.00 | 21.7 | -28.2 | -10.7 | -15.0 | 1.2 | 0.8 | 20.1 | 23.0 | 1.7 | 27.3 | 27.5 | 27.3 | 27.2 | 27.2 | 27.0 | 26.7 |
| 4200.00 | 21.8 | -28.2 | -10.9 | -15.6 | 1.2 | 0.8 | 20.2 | 22.9 | 1.7 | 28.1 | 27.2 | 27.5 | 27.5 | 27.5 | 27.2 | 26.9 |
| 4300.00 | 21.8 | -28.2 | -11.2 | -16.0 | 1.3 | 0.8 | 20.2 | 23.1 | 1.7 | 27.1 | 27.9 | 27.5 | 27.7 | 27.6 | 27.3 | 27.0 |
| 4400.00 | 21.9 | -28.3 | -11.7 | -16.6 | 1.3 | 0.8 | 20.2 | 23.2 | 1.7 | 28.1 | 27.3 | 27.4 | 27.6 | 27.5 | 27.2 | 26.9 |
| 4500.00 | 21.9 | -28.3 | -12.1 | -17.3 | 1.3 | 0.8 | 20.0 | 23.4 | 1.7 | 27.1 | 27.4 | 27.3 | 27.4 | 27.2 | 26.9 | 26.6 |
| 4600.00 | 22.0 | -28.4 | -12.7 | -18.0 | 1.3 | 0.8 | 19.4 | 23.3 | 1.6 | 27.2 | 27.2 | 27.0 | 26.9 | 26.8 | 26.5 | 26.2 |
| 4700.00 | 22.0 | -28.4 | -13.3 | -19.0 | 1.3 | 0.8 | 19.6 | 23.1 | 1.6 | 27.2 | 27.1 | 27.1 | 27.1 | 26.9 | 26.7 | 26.4 |
| 4800.00 | 22.1 | -28.4 | -13.7 | -19.5 | 1.3 | 0.8 | 20.0 | 22.8 | 1.7 | 27.7 | 27.8 | 27.3 | 27.4 | 27.3 | 27.1 | 26.9 |
| 4900.00 | 22.1 | -28.5 | -14.6 | -20.1 | 1.3 | 0.8 | 20.0 | 22.8 | 1.7 | 26.9 | 26.4 | 26.6 | 26.5 | 26.3 | 26.1 | 25.8 |
| 5000.00 | 22.2 | -28.5 | -15.2 | -21.4 | 1.3 | 0.8 | 20.2 | 22.8 | 1.7 | 26.2 | 26.7 | 26.4 | 26.3 | 26.2 | 25.9 | 25.6 |
| 5100.00 | 22.2 | -28.7 | -15.7 | -21.8 | 1.3 | 0.8 | 20.4 | 22.7 | 1.7 | 26.3 | 26.5 | 26.7 | 26.5 | 26.4 | 26.2 | 26.0 |
| 5200.00 | 22.2 | -28.7 | -16.7 | -22.5 | 1.3 | 0.8 | 20.4 | 22.7 | 1.7 | 27.0 | 26.9 | 26.7 | 26.8 | 26.8 | 26.7 | 26.7 |
| 5300.00 | 22.3 | -28.7 | -16.7 | -23.0 | 1.3 | 0.8 | 20.4 | 22.8 | 1.7 | 27.0 | 27.1 | 27.0 | 27.0 | 27.0 | 26.9 | 26.8 |
| 5400.00 | 22.3 | -28.9 | -17.0 | -22.4 | 1.3 | 0.8 | 20.0 | 22.9 | 1.7 | 26.0 | 26.3 | 26.2 | 26.2 | 26.1 | 25.9 | 25.7 |
| 5500.00 | 22.3 | -28.9 | -17.4 | -23.5 | 1.3 | 0.8 | 19.5 | 22.8 | 1.7 | 25.8 | 25.8 | 25.9 | 25.8 | 25.5 | 25.3 | 25.0 |
| 5600.00 | 22.4 | -29.0 | -16.1 | -22.7 | 1.3 | 0.8 | 18.9 | 22.5 | 1.8 | 26.6 | 25.7 | 25.7 | 25.5 | 25.4 | 25.0 | 24.6 |
| 5700.00 | 22.3 | -29.3 | -15.9 | -21.5 | 1.4 | 0.8 | 18.7 | 22.3 | 1.8 | 26.0 | 25.9 | 25.7 | 25.6 | 25.4 | 25.0 | 24.6 |
| 5800.00 | 22.3 | -29.1 | -15.2 | -21.9 | 1.3 | 0.8 | 18.6 | 22.0 | 1.8 | 25.4 | 25.4 | 25.2 | 25.1 | 24.9 | 24.5 | 24.2 |
| 5900.00 | 22.3 | -29.5 | -13.5 | -19.7 | 1.4 | 0.9 | 18.6 | 21.8 | 1.8 | 25.4 | 25.4 | 25.2 | 25.2 | 24.9 | 24.6 | 24.3 |
| 6000.00 | 22.2 | -29.6 | -13.3 | -19.4 | 1.4 | 0.9 | 18.3 | 21.2 | 2.0 | 24.9 | 24.5 | 24.7 | 24.5 | 24.2 | 23.8 | 23.5 |
| 6100.00 | 22.3 | -29.6 | -11.9 | -18.4 | 1.4 | 0.9 | 18.4 | 20.9 | 1.8 | 25.3 | 25.0 | 24.9 | 24.7 | 24.5 | 24.2 | 24.1 |
| 6200.00 | 22.1 | -30.2 | -10.7 | -16.4 | 1.4 | 0.9 | 18.4 | 20.4 | 1.9 | 24.8 | 24.7 | 24.5 | 24.3 | 24.1 | 23.9 | 23.8 |
| 6300.00 | 22.1 | -30.1 | -10.3 | -16.0 | 1.4 | 0.9 | 18.2 | 20.1 | 1.9 | 25.0 | 24.8 | 24.7 | 24.6 | 24.4 | 24.2 | 24.2 |
| 6400.00 | 22.1 | -30.4 | -9.1 | -14.5 | 1.4 | 0.9 | 18.2 | 19.8 | 1.9 | 24.0 | 24.0 | 23.8 | 23.6 | 23.5 | 23.3 | 23.5 |
| 6500.00 | 21.8 | -30.9 | -8.4 | -13.3 | 1.5 | 0.9 | 18.4 | 19.9 | 2.0 | 24.1 | 24.1 | 23.9 | 23.8 | 23.6 | 23.5 | 23.5 |
| 6600.00 | 21.8 | -30.9 | -7.8 | -12.8 | 1.5 | 1.0 | 18.6 | 20.0 | 1.9 | 24.4 | 24.5 | 24.3 | 24.2 | 24.0 | 23.8 | 23.8 |
| 6700.00 | 21.6 | -31.5 | -6.8 | -11.5 | 1.5 | 1.0 | 18.5 | 19.9 | 2.0 | 23.7 | 24.0 | 23.8 | 23.6 | 23.4 | 23.2 | 23.2 |
| 6800.00 | 21.2 | -32.1 | -6.3 | -10.6 | 1.6 | 1.0 | 18.6 | 19.8 | 2.0 | 23.9 | 23.8 | 23.8 | 23.7 | 23.4 | 23.3 | 23.3 |
| 6900.00 | 21.1 | -32.4 | -5.7 | -10.0 | 1.6 | 1.0 | 18.5 | 19.6 | 2.0 | 23.7 | 23.5 | 23.3 | 23.2 | 23.1 | 22.9 | 23.1 |
| 7000.00 | 20.8 | -33.4 | -5.1 | -9.1 | 1.7 | 1.0 | 18.8 | 19.7 | 2.1 | 22.5 | 22.5 | 22.3 | 22.2 | 22.0 | 21.9 | 22.4 |
| 7100.00 | 20.3 | -34.0 | -4.9 | -8.6 | 1.8 | 1.0 | 18.7 | 19.4 | 2.1 | 22.9 | 22.6 | 22.5 | 22.3 | 22.1 | 22.0 | 22.4 |
| 7200.00 | 20.0 | -34.8 | -4.4 | -8.0 | 1.9 | 1.1 | 18.4 | 19.1 | 2.1 | 23.4 | 22.8 | 22.8 | 22.6 | 22.4 | 22.3 | 22.7 |
| 7300.00 | 19.4 | -36.2 | -4.0 | -7.4 | 2.1 | 1.1 | 18.2 | 18.7 | 2.2 | 22.2 | 21.9 | 21.9 | 21.7 | 21.4 | 21.5 | 22.2 |
| 7400.00 | 18.8 | -37.2 | -3.9 | -7.1 | 2.4 | 1.1 | 17.8 | 18.3 | 2.2 | 22.2 | 22.0 | 21.8 | 21.6 | 21.4 | 21.5 | 22.3 |
| 7500.00 | 18.2 | -38.6 | -3.6 | -6.6 | 2.8 | 1.1 | 17.5 | 17.8 | 2.2 | 20.9 | 20.7 | 20.4 | 20.2 | 20.0 | 20.6 | 21.8 |
| 7600.00 | 17.3 | -40.7 | -3.6 | -6.3 | 3.7 | 1.1 | 17.1 | 17.4 | 2.3 | 21.7 | 21.5 | 21.1 | 20.8 | 20.6 | 20.9 | 22.0 |
| 7700.00 | 16.7 | -41.5 | -3.7 | -6.2 | 4.3 | 1.1 | 16.5 | 16.8 | 2.3 | 20.8 | 20.7 | 20.4 | 20.2 | 20.0 | 20.5 | 21.9 |
| 7800.00 | 15.8 | -44.4 | -3.4 | -5.7 | 6.0 | 1.1 | 15.7 | 16.0 | 2.4 | 20.1 | 19.9 | 19.5 | 19.2 | 19.3 | 20.3 | 21.7 |
| 7900.00 | 14.5 | -46.9 | -3.7 | -5.4 | 9.1 | 1.0 | 14.7 | 15.0 | 2.5 | 19.3 | 19.1 | 18.7 | 18.4 | 18.8 | 20.1 | 21.3 |
| 8000.00 | 13.5 | -48.6 | -3.6 | -5.2 | 11.9 | 1.0 | 13.5 | 13.8 | 2.5 | 17.3 | 16.9 | 16.6 | 17.0 | 18.1 | 19.3 | 18.6 |

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 75 mA, $I_{EN}$ = 2.17 mA @ Temperature = +25°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 39.8 | 39.6 | 39.6 | 39.6 | 39.4 | 39.2 | 38.8 |
| 1000.0 | 38.9 | 38.7 | 38.7 | 38.6 | 38.4 | 38.2 | 37.8 |
| 2000.0 | 37.1 | 37.0 | 36.9 | 36.7 | 36.4 | 36.1 | 35.8 |
| 4000.0 | 44.6 | 44.5 | 44.2 | 44.0 | 43.7 | 43.5 | 43.3 |
| 6000.0 | 32.8 | 32.6 | 32.4 | 32.0 | 31.6 | 31.2 | 30.9 |
| 8000.0 | 36.7 | 36.3 | 35.8 | 35.8 | 36.6 | 38.2 | 40.6 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 80 mA, $I_{EN}$ = 2.15 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.6 | -29.8 | -10.0 | -9.1 | 1.4 | 0.8 | 19.7 | 22.2 | 1.6 | 26.3 | 26.8 | 26.4 | 26.4 | 26.3 | 26.1 | 25.8 |
| 5600.00 | 21.7 | -29.9 | -9.8 | -9.2 | 1.4 | 0.8 | 19.4 | 22.0 | 1.6 | 25.3 | 25.2 | 25.3 | 25.2 | 25.0 | 24.8 | 24.4 |
| 5700.00 | 21.7 | -29.9 | -10.2 | -9.5 | 1.4 | 0.8 | 19.0 | 22.1 | 1.6 | 25.8 | 25.2 | 25.5 | 25.4 | 25.3 | 25.0 | 24.5 |
| 5800.00 | 21.9 | -30.0 | -9.9 | -9.5 | 1.4 | 0.8 | 18.7 | 22.2 | 1.6 | 25.3 | 25.4 | 25.4 | 25.3 | 25.2 | 24.9 | 24.5 |
| 5900.00 | 21.9 | -29.8 | -10.3 | -9.8 | 1.4 | 0.8 | 18.1 | 21.8 | 1.6 | 25.2 | 25.0 | 24.8 | 24.7 | 24.6 | 24.2 | 23.7 |
| 6000.00 | 22.0 | -30.0 | -9.9 | -9.9 | 1.4 | 0.8 | 18.3 | 21.3 | 1.6 | 23.8 | 23.6 | 23.5 | 23.4 | 23.2 | 22.7 | 22.6 |
| 6100.00 | 22.0 | -29.9 | -10.2 | -10.2 | 1.4 | 0.8 | 18.6 | 21.3 | 1.6 | 24.6 | 24.9 | 24.5 | 24.4 | 24.2 | 24.0 | 23.8 |
| 6200.00 | 22.1 | -30.1 | -9.9 | -10.2 | 1.4 | 0.8 | 18.8 | 21.1 | 1.6 | 24.2 | 23.9 | 24.1 | 24.0 | 23.8 | 23.7 | 23.7 |
| 6300.00 | 22.1 | -30.0 | -10.2 | -10.5 | 1.4 | 0.8 | 19.2 | 21.5 | 1.6 | 25.1 | 25.0 | 25.1 | 25.0 | 25.0 | 24.9 | 24.9 |
| 6400.00 | 22.2 | -30.4 | -9.8 | -10.5 | 1.4 | 0.8 | 19.5 | 21.5 | 1.6 | 25.0 | 24.9 | 25.0 | 24.9 | 25.0 | 25.0 | 25.0 |
| 6500.00 | 22.2 | -30.3 | -10.2 | -10.9 | 1.4 | 0.8 | 19.6 | 21.3 | 1.6 | 25.3 | 25.7 | 24.9 | 25.1 | 25.1 | 25.1 | 25.2 |
| 6600.00 | 22.3 | -30.6 | -9.9 | -10.9 | 1.4 | 0.8 | 19.5 | 21.0 | 1.6 | 25.4 | 25.1 | 25.1 | 25.2 | 25.2 | 25.2 | 25.3 |
| 6700.00 | 22.3 | -30.6 | -10.3 | -11.4 | 1.4 | 0.8 | 19.2 | 20.5 | 1.6 | 25.4 | 25.3 | 25.0 | 25.1 | 25.2 | 25.2 | 25.3 |
| 6800.00 | 22.4 | -30.9 | -10.0 | -11.4 | 1.5 | 0.8 | 19.4 | 20.6 | 1.7 | 25.4 | 25.3 | 25.4 | 25.6 | 25.6 | 25.7 | 25.8 |
| 6900.00 | 22.4 | -30.9 | -10.4 | -12.0 | 1.5 | 0.9 | 19.7 | 20.9 | 1.7 | 25.8 | 26.2 | 25.6 | 25.7 | 25.8 | 26.0 | 26.2 |
| 7000.00 | 22.5 | -31.3 | -10.2 | -12.0 | 1.5 | 0.9 | 19.7 | 20.8 | 1.7 | 25.4 | 25.1 | 25.2 | 25.2 | 25.4 | 25.6 | 25.8 |
| 7100.00 | 22.4 | -31.2 | -10.7 | -12.7 | 1.5 | 0.9 | 19.8 | 20.8 | 1.7 | 25.5 | 25.4 | 25.5 | 25.6 | 25.7 | 25.8 | 26.1 |
| 7200.00 | 22.5 | -31.5 | -10.5 | -12.8 | 1.6 | 0.9 | 20.0 | 20.9 | 1.8 | 25.9 | 25.5 | 25.3 | 25.5 | 25.7 | 25.9 | 26.2 |
| 7300.00 | 22.4 | -31.8 | -11.0 | -13.7 | 1.6 | 0.9 | 20.0 | 20.9 | 1.8 | 25.2 | 24.8 | 24.9 | 25.1 | 25.2 | 25.5 | 25.9 |
| 7400.00 | 22.4 | -32.3 | -10.7 | -13.8 | 1.7 | 0.9 | 19.8 | 20.8 | 1.9 | 24.9 | 25.2 | 25.0 | 25.2 | 25.3 | 25.6 | 26.0 |
| 7500.00 | 22.3 | -32.4 | -11.2 | -15.0 | 1.8 | 0.9 | 19.5 | 20.4 | 1.9 | 25.4 | 25.1 | 25.1 | 25.3 | 25.5 | 25.8 | 26.3 |
| 7600.00 | 22.2 | -33.1 | -10.6 | -15.2 | 1.9 | 1.0 | 19.7 | 20.6 | 2.0 | 24.9 | 25.2 | 25.1 | 25.2 | 25.4 | 25.6 | 26.0 |
| 7700.00 | 22.0 | -33.4 | -10.9 | -16.8 | 2.0 | 1.0 | 19.7 | 20.5 | 2.1 | 23.8 | 23.8 | 23.8 | 24.0 | 24.2 | 24.4 | 25.0 |
| 7800.00 | 21.8 | -34.3 | -9.9 | -16.7 | 2.2 | 1.0 | 19.4 | 20.2 | 2.2 | 24.7 | 24.5 | 24.7 | 24.9 | 25.1 | 25.4 | 25.9 |
| 7900.00 | 21.4 | -34.5 | -9.9 | -18.5 | 2.3 | 1.0 | 19.1 | 19.8 | 2.3 | 24.6 | 24.5 | 24.7 | 24.8 | 25.1 | 25.4 | 26.0 |
| 8000.00 | 21.0 | -36.0 | -8.5 | -17.2 | 2.7 | 1.1 | 18.5 | 19.1 | 2.4 | 24.1 | 24.0 | 24.2 | 24.3 | 24.7 | 25.1 | 25.9 |
| 8100.00 | 20.6 | -36.2 | -8.3 | -17.6 | 2.8 | 1.1 | 18.7 | 19.3 | 2.5 | 24.3 | 24.0 | 24.2 | 24.4 | 24.5 | 25.0 | 25.7 |
| 8200.00 | 19.8 | -38.3 | -6.8 | -14.9 | 3.5 | 1.2 | 18.8 | 19.2 | 2.7 | 23.5 | | 23.4 | 23.5 | 23.9 | 24.4 | 25.3 |
| 8300.00 | 19.3 | -38.2 | -6.5 | -14.0 | 3.6 | 1.2 | 18.7 | 19.1 | 2.8 | 23.6 | 23.8 | 23.6 | 23.8 | 24.1 | 24.6 | 25.5 |
| 8400.00 | 18.1 | -41.0 | -5.3 | -11.4 | 4.8 | 1.2 | 18.4 | 18.9 | 3.0 | 24.0 | 23.8 | 23.9 | 24.0 | 24.2 | 24.8 | 25.7 |
| 8500.00 | 17.5 | -40.9 | -4.8 | -10.4 | 4.8 | 1.2 | 17.9 | 18.4 | 3.2 | 22.8 | 22.5 | 22.7 | 23.0 | 23.5 | 24.2 | 24.6 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 36.9 | 36.9 | 36.7 | 36.5 | 36.2 | 35.9 | 35.6 |
| 6000.0 | 33.8 | 33.7 | 33.5 | 33.2 | 32.8 | 32.4 | 32.0 |
| 7000.0 | 44.0 | 43.8 | 43.6 | 43.3 | 43.0 | 42.7 | 42.6 |
| 8000.0 | 52.0 | 51.9 | 51.6 | 51.2 | 50.9 | 50.6 | 50.6 |
| 8500.0 | 60.2 | 60.0 | 59.7 | 59.3 | 59.0 | 58.9 | 59.4 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.8 | -4.0 | -8.7 | 1.1 | 0.8 | 3.2 |
| 300.00 | -2.3 | -2.4 | -6.7 | -11.5 | 1.0 | 0.7 | 2.0 |
| 400.00 | -1.7 | -1.8 | -9.3 | -13.7 | 1.0 | 0.5 | 1.6 |
| 500.00 | -1.4 | -1.4 | -12.0 | -15.6 | 1.0 | 0.5 | 1.4 |
| 600.00 | -1.2 | -1.3 | -14.9 | -17.0 | 1.0 | 0.4 | 1.2 |
| 700.00 | -1.2 | -1.2 | -18.2 | -18.0 | 1.0 | 0.4 | 1.2 |
| 800.00 | -1.1 | -1.2 | -22.2 | -18.3 | 1.0 | 0.4 | 1.3 |
| 900.00 | -1.1 | -1.2 | -27.8 | -18.1 | 1.0 | 0.4 | 1.3 |
| 1000.00 | -1.1 | -1.2 | -32.8 | -17.7 | 1.0 | 0.4 | 1.2 |
| 1100.00 | -1.1 | -1.2 | -27.4 | -17.3 | 1.0 | 0.4 | 1.1 |
| 1200.00 | -1.1 | -1.2 | -23.4 | -17.0 | 1.0 | 0.4 | 1.1 |
| 1300.00 | -1.1 | -1.2 | -20.8 | -16.6 | 1.0 | 0.4 | 1.1 |
| 1400.00 | -1.1 | -1.3 | -18.9 | -16.1 | 1.0 | 0.4 | 1.1 |
| 1500.00 | -1.2 | -1.3 | -17.5 | -15.7 | 1.0 | 0.4 | 1.5 |
| 1600.00 | -1.2 | -1.3 | -16.4 | -15.5 | 1.0 | 0.4 | 1.1 |
| 1700.00 | -1.3 | -1.4 | -15.6 | -15.5 | 1.0 | 0.5 | 1.3 |
| 1800.00 | -1.3 | -1.4 | -14.9 | -15.4 | 1.0 | 0.5 | 1.5 |
| 1900.00 | -1.3 | -1.5 | -14.4 | -15.2 | 1.0 | 0.5 | 1.6 |
| 2000.00 | -1.4 | -1.5 | -13.9 | -15.1 | 1.0 | 0.5 | 1.4 |
| 2100.00 | -1.4 | -1.6 | -13.7 | -15.3 | 1.0 | 0.5 | 1.2 |
| 2200.00 | -1.4 | -1.6 | -13.5 | -15.6 | 1.0 | 0.5 | 1.5 |
| 2300.00 | -1.4 | -1.6 | -13.4 | -15.8 | 1.0 | 0.5 | 1.8 |
| 2400.00 | -1.5 | -1.7 | -13.3 | -16.1 | 1.0 | 0.5 | 1.8 |
| 2500.00 | -1.5 | -1.7 | -13.3 | -16.6 | 1.0 | 0.6 | 1.8 |
| 2600.00 | -1.5 | -1.8 | -13.4 | -17.3 | 1.0 | 0.6 | 1.8 |
| 2700.00 | -1.5 | -1.9 | -13.5 | -18.1 | 1.1 | 0.6 | 1.9 |
| 2800.00 | -1.5 | -1.9 | -13.6 | -18.9 | 1.1 | 0.6 | 2.1 |
| 2900.00 | -1.5 | -2.0 | -13.8 | -19.8 | 1.1 | 0.6 | 2.0 |
| 3000.00 | -1.6 | -2.0 | -14.0 | -21.0 | 1.1 | 0.6 | 2.1 |
| 3100.00 | -1.6 | -1.9 | -14.1 | -22.6 | 1.1 | 0.6 | 2.0 |
| 3200.00 | -1.6 | -1.9 | -14.2 | -24.6 | 1.1 | 0.6 | 2.0 |
| 3300.00 | -1.6 | -1.9 | -14.2 | -26.6 | 1.1 | 0.6 | 1.9 |
| 3400.00 | -1.6 | -1.9 | -14.3 | -29.0 | 1.1 | 0.6 | 2.0 |
| 3500.00 | -1.6 | -1.9 | -14.3 | -30.3 | 1.1 | 0.6 | 2.0 |
| 3600.00 | -1.6 | -1.9 | -14.2 | -27.9 | 1.1 | 0.6 | 2.0 |
| 3700.00 | -1.6 | -1.9 | -14.1 | -24.9 | 1.1 | 0.6 | 2.0 |
| 3800.00 | -1.7 | -1.9 | -13.9 | -22.6 | 1.1 | 0.6 | 2.1 |
| 3900.00 | -1.7 | -2.0 | -13.7 | -20.9 | 1.1 | 0.6 | 2.1 |
| 4000.00 | -1.7 | -2.0 | -13.5 | -19.2 | 1.1 | 0.6 | 2.4 |
| 4100.00 | -1.7 | -2.0 | -13.2 | -17.7 | 1.1 | 0.6 | 2.0 |
| 4200.00 | -1.7 | -2.0 | -12.8 | -16.6 | 1.1 | 0.6 | 2.2 |
| 4300.00 | -1.7 | -2.1 | -12.6 | -15.8 | 1.1 | 0.6 | 2.5 |
| 4400.00 | -1.8 | -2.1 | -12.3 | -15.0 | 1.1 | 0.6 | 2.1 |
| 4500.00 | -1.8 | -2.1 | -12.0 | -14.3 | 1.1 | 0.6 | 2.1 |
| 4600.00 | -1.8 | -2.2 | -11.7 | -13.6 | 1.1 | 0.6 | 1.3 |
| 4700.00 | -1.8 | -2.2 | -11.5 | -13.2 | 1.1 | 0.6 | 2.2 |
| 4800.00 | -1.8 | -2.2 | -11.4 | -12.9 | 1.1 | 0.6 | 2.0 |
| 4900.00 | -1.9 | -2.3 | -11.3 | -12.5 | 1.1 | 0.6 | 1.8 |
| 5000.00 | -1.9 | -2.3 | -11.1 | -12.1 | 1.1 | 0.6 | 2.2 |
| 5100.00 | -1.9 | -2.3 | -11.0 | -11.9 | 1.1 | 0.6 | 2.0 |
| 5200.00 | -1.9 | -2.3 | -10.9 | -11.7 | 1.1 | 0.6 | 2.5 |
| 5300.00 | -1.9 | -2.3 | -10.9 | -11.6 | 1.1 | 0.6 | 2.0 |
| 5400.00 | -1.9 | -2.4 | -10.9 | -11.5 | 1.1 | 0.6 | 1.7 |
| 5500.00 | -1.9 | -2.4 | -10.9 | -11.3 | 1.1 | 0.6 | 2.3 |
| 5600.00 | -1.8 | -2.3 | -11.1 | -11.4 | 1.1 | 0.6 | 2.5 |
| 5700.00 | -1.8 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 2.2 |
| 5800.00 | -1.8 | -2.3 | -11.2 | -11.4 | 1.1 | 0.6 | 2.4 |
| 5900.00 | -1.8 | -2.3 | -11.6 | -11.6 | 1.1 | 0.6 | 2.7 |
| 6000.00 | -1.8 | -2.3 | -11.7 | -11.5 | 1.1 | 0.6 | 2.8 |
| 6100.00 | -1.7 | -2.3 | -12.0 | -11.7 | 1.1 | 0.6 | 2.0 |
| 6200.00 | -1.7 | -2.3 | -12.4 | -12.0 | 1.1 | 0.6 | 2.0 |
| 6300.00 | -1.7 | -2.3 | -12.6 | -12.1 | 1.1 | 0.6 | 2.3 |
| 6400.00 | -1.6 | -2.3 | -13.0 | -12.3 | 1.1 | 0.6 | 2.1 |
| 6500.00 | -1.7 | -2.3 | -13.2 | -12.4 | 1.1 | 0.6 | 1.7 |
| 6600.00 | -1.6 | -2.2 | -13.4 | -12.4 | 1.1 | 0.6 | 1.7 |
| 6700.00 | -1.6 | -2.2 | -13.9 | -12.8 | 1.1 | 0.6 | 2.1 |
| 6800.00 | -1.6 | -2.3 | -14.0 | -12.8 | 1.1 | 0.6 | 1.9 |
| 6900.00 | -1.6 | -2.2 | -14.1 | -12.8 | 1.1 | 0.6 | 2.0 |
| 7000.00 | -1.6 | -2.3 | -14.3 | -12.9 | 1.1 | 0.6 | 2.5 |
| 7100.00 | -1.7 | -2.3 | -14.1 | -12.8 | 1.1 | 0.6 | 2.4 |
| 7200.00 | -1.7 | -2.3 | -14.0 | -12.8 | 1.1 | 0.6 | 2.3 |
| 7300.00 | -1.7 | -2.4 | -13.8 | -12.6 | 1.1 | 0.6 | 2.8 |
| 7400.00 | -1.8 | -2.5 | -13.3 | -12.2 | 1.1 | 0.6 | 2.6 |
| 7500.00 | -1.8 | -2.5 | -12.8 | -12.0 | 1.1 | 0.6 | 2.2 |
| 7600.00 | -2.0 | -2.6 | -12.5 | -11.7 | 1.1 | 0.6 | 2.4 |
| 7700.00 | -2.0 | -2.7 | -11.7 | -11.1 | 1.1 | 0.6 | 2.6 |
| 7800.00 | -2.1 | -2.8 | -11.3 | -10.7 | 1.1 | 0.6 | 2.1 |
| 7900.00 | -2.3 | -3.0 | -10.7 | -10.1 | 1.2 | 0.6 | 2.6 |
| 8000.00 | -2.4 | -3.0 | -9.8 | -9.5 | 1.1 | 0.6 | 2.3 |

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 40.6 | 39.2 | 36.3 | 31.9 | 26.7 | 20.0 | 16.8 |
| 1000.0 | 42.4 | 41.3 | 37.9 | 33.0 | 26.7 | 18.1 | 15.5 |
| 2000.0 | 44.1 | 43.3 | 41.9 | 38.6 | 33.7 | 26.7 | 18.6 |
| 4000.0 | 40.7 | 41.8 | 42.9 | 42.5 | 40.4 | 36.3 | 30.1 |
| 6000.0 | 41.4 | 43.4 | 44.7 | 43.6 | 40.1 | 34.1 | 25.7 |
| 8000.0 | 41.7 | 43.4 | 43.9 | 43.8 | 40.6 | 35.1 | 26.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 71.7 | 71.5 | 71.1 | 70.3 | 67.6 | 58.8 | 47.2 |
| 1000.0 | 71.0 | 71.2 | 71.4 | 71.6 | 69.5 | 55.2 | 60.6 |
| 2000.0 | 70.6 | 70.6 | 70.5 | 70.6 | 70.1 | 67.0 | 55.3 |
| 4000.0 | 74.6 | 74.6 | 74.6 | 74.6 | 74.8 | 75.1 | 74.8 |
| 6000.0 | 73.6 | 73.6 | 73.4 | 73.2 | 72.9 | 72.0 | 67.6 |
| 8000.0 | 84.4 | 84.4 | 84.4 | 84.4 | 84.2 | 83.5 | 80.6 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 14.4 | 11.2 |
| 1000.0 | 13.1 | 10.8 |
| 2000.0 | 15.1 | 12.4 |
| 4000.0 | 17.5 | 13.9 |
| 6000.0 | 18.2 | 14.6 |
| 8000.0 | 18.2 | 13.5 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.6 | -2.2 | -20.4 | -18.0 | 1.1 | 0.7 | 2.2 |
| 5600.00 | -1.6 | -2.2 | -21.0 | -17.9 | 1.1 | 0.6 | 2.3 |
| 5700.00 | -1.6 | -2.3 | -20.8 | -17.7 | 1.1 | 0.6 | 2.3 |
| 5800.00 | -1.6 | -2.3 | -20.2 | -17.0 | 1.1 | 0.6 | 2.2 |
| 5900.00 | -1.6 | -2.3 | -19.2 | -16.4 | 1.1 | 0.6 | 2.1 |
| 6000.00 | -1.6 | -2.3 | -18.4 | -15.7 | 1.1 | 0.6 | 2.1 |
| 6100.00 | -1.6 | -2.3 | -17.2 | -14.9 | 1.1 | 0.6 | 2.0 |
| 6200.00 | -1.6 | -2.4 | -16.3 | -14.3 | 1.1 | 0.6 | 2.3 |
| 6300.00 | -1.6 | -2.4 | -15.3 | -13.5 | 1.1 | 0.6 | 2.5 |
| 6400.00 | -1.7 | -2.4 | -14.5 | -12.9 | 1.1 | 0.6 | 2.0 |
| 6500.00 | -1.7 | -2.5 | -13.6 | -12.3 | 1.1 | 0.6 | 2.0 |
| 6600.00 | -1.8 | -2.5 | -13.0 | -11.8 | 1.1 | 0.6 | 2.5 |
| 6700.00 | -1.8 | -2.6 | -12.1 | -11.1 | 1.1 | 0.6 | 2.5 |
| 6800.00 | -1.9 | -2.7 | -11.5 | -10.7 | 1.1 | 0.6 | 2.4 |
| 6900.00 | -2.0 | -2.8 | -10.8 | -10.1 | 1.1 | 0.6 | 2.8 |
| 7000.00 | -2.1 | -2.9 | -10.2 | -9.6 | 1.1 | 0.6 | 2.4 |
| 7100.00 | -2.2 | -3.0 | -9.6 | -9.1 | 1.1 | 0.6 | 2.0 |
| 7200.00 | -2.3 | -3.1 | -9.1 | -8.7 | 1.1 | 0.6 | 2.7 |
| 7300.00 | -2.4 | -3.2 | -8.5 | -8.2 | 1.1 | 0.6 | 2.1 |
| 7400.00 | -2.5 | -3.3 | -8.0 | -7.8 | 1.1 | 0.6 | 2.4 |
| 7500.00 | -2.7 | -3.5 | -7.5 | -7.3 | 1.1 | 0.6 | 2.4 |
| 7600.00 | -2.9 | -3.6 | -7.0 | -7.0 | 1.1 | 0.6 | 2.4 |
| 7700.00 | -3.1 | -3.8 | -6.6 | -6.5 | 1.1 | 0.6 | 2.6 |
| 7800.00 | -3.2 | -4.0 | -6.2 | -6.2 | 1.1 | 0.6 | 2.2 |
| 7900.00 | -3.4 | -4.2 | -5.8 | -5.8 | 1.1 | 0.6 | 3.3 |
| 8000.00 | -3.6 | -4.3 | -5.5 | -5.6 | 1.2 | 0.6 | 2.8 |
| 8100.00 | -3.8 | -4.5 | -5.1 | -5.2 | 1.2 | 0.6 | 3.8 |
| 8200.00 | -4.0 | -4.7 | -4.8 | -5.0 | 1.2 | 0.6 | 3.1 |
| 8300.00 | -4.2 | -4.9 | -4.5 | -4.7 | 1.2 | 0.6 | 3.0 |
| 8400.00 | -4.4 | -5.1 | -4.3 | -4.6 | 1.2 | 0.6 | 2.8 |
| 8500.00 | -4.6 | -5.3 | -4.0 | -4.2 | 1.2 | 0.6 | 3.2 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 17.2 | 14.0 |
| 6000.0 | 19.0 | 15.0 |
| 7000.0 | 20.4 | 16.0 |
| 8000.0 | 20.7 | 14.6 |
| 8500.0 | 19.4 | 12.9 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.2 | 70.1 | 69.9 | 69.7 | 69.4 | 68.4 | 64.6 | 41.3 | 42.1 | 42.5 | 41.8 | 41.2 | 38.3 | 32.5 |
| 6000.0 | 76.7 | 76.7 | 76.6 | 76.5 | 76.2 | 75.9 | 74.9 | 40.5 | 40.7 | 41.6 | 42.0 | 40.7 | 36.6 | 29.1 |
| 7000.0 | 88.9 | 88.7 | 88.6 | 88.4 | 88.1 | 87.7 | 86.8 | 40.6 | 41.7 | 41.0 | 42.2 | 40.2 | 36.0 | 30.1 |
| 8000.0 | 84.7 | 84.7 | 84.6 | 84.6 | 84.4 | 84.1 | 83.2 | 40.8 | 41.7 | 42.0 | 41.4 | 40.8 | 39.1 | 34.2 |
| 8500.0 | 92.0 | 91.9 | 91.8 | 91.7 | 91.6 | 93.7 | 90.4 | 42.0 | 43.3 | 44.5 | 42.6 | 37.5 | 29.9 | 18.7 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 81 mA, $I_{EN}$ = 2.28 mA @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.1 | -33.3 | -1.9 | -4.5 | 1.4 | 0.9 | 20.3 | 21.7 | 4.6 | 31.3 | 32.7 | 32.0 | 32.5 | 32.2 | 32.0 | 31.8 |
| 300.00 | 19.9 | -28.3 | -5.8 | -8.7 | 1.2 | 0.8 | 20.5 | 21.8 | 2.5 | 31.8 | 32.0 | 31.9 | 32.4 | 32.4 | 32.1 | 31.8 |
| 400.00 | 21.4 | -26.9 | -12.0 | -14.7 | 1.2 | 0.7 | 21.1 | 22.2 | 1.8 | 30.9 | 33.0 | 33.6 | 33.8 | 33.6 | 33.4 | 33.1 |
| 500.00 | 21.8 | -26.6 | -17.9 | -17.5 | 1.1 | 0.7 | 21.4 | 22.3 | 1.6 | 32.1 | 34.4 | 33.9 | 33.9 | 34.2 | 33.7 | 33.6 |
| 600.00 | 21.8 | -26.5 | -18.4 | -16.5 | 1.1 | 0.6 | 21.6 | 22.4 | 1.5 | 33.9 | 35.0 | 35.3 | 35.2 | 34.7 | 34.4 | 34.4 |
| 700.00 | 21.8 | -26.5 | -16.8 | -15.5 | 1.1 | 0.6 | 21.8 | 22.6 | 1.4 | 31.9 | 33.6 | 33.8 | 34.4 | 33.8 | 33.4 | 33.2 |
| 800.00 | 21.8 | -26.5 | -15.7 | -15.1 | 1.1 | 0.6 | 21.8 | 22.7 | 1.4 | 32.6 | 33.3 | 35.5 | 34.4 | 34.3 | 34.3 | 34.1 |
| 900.00 | 21.8 | -26.6 | -15.2 | -15.0 | 1.1 | 0.6 | 21.9 | 22.8 | 1.4 | 35.3 | 33.6 | 34.5 | 34.5 | 34.4 | 34.1 | 33.9 |
| 1000.00 | 21.8 | -26.6 | -14.9 | -15.2 | 1.1 | 0.6 | 21.9 | 22.8 | 1.4 | 33.8 | 33.8 | 33.7 | 34.0 | 34.4 | 33.9 | 33.9 |
| 1100.00 | 21.8 | -26.7 | -14.9 | -15.6 | 1.1 | 0.7 | 21.8 | 22.7 | 1.4 | 33.1 | 34.3 | 34.1 | 34.3 | 34.2 | 33.8 | 33.7 |
| 1200.00 | 21.8 | -26.7 | -15.0 | -16.2 | 1.1 | 0.7 | 22.0 | 22.9 | 1.4 | 34.1 | 33.3 | 33.3 | 33.5 | 33.5 | 33.4 | 33.3 |
| 1300.00 | 21.9 | -26.7 | -15.2 | -16.9 | 1.1 | 0.7 | 22.0 | 22.9 | 1.4 | 33.0 | 32.1 | 33.3 | 33.1 | 33.2 | 33.1 | 32.9 |
| 1400.00 | 21.9 | -26.8 | -15.4 | -17.9 | 1.1 | 0.7 | 21.9 | 22.8 | 1.4 | 33.7 | 32.9 | 33.1 | 33.2 | 33.3 | 33.1 | 33.0 |
| 1500.00 | 21.9 | -26.8 | -15.7 | -19.2 | 1.1 | 0.7 | 21.9 | 23.0 | 1.4 | 31.6 | 32.2 | 32.0 | 32.5 | 32.4 | 32.2 | 32.1 |
| 1600.00 | 21.9 | -26.8 | -15.8 | -20.8 | 1.2 | 0.7 | 21.9 | 22.9 | 1.4 | 32.7 | 32.7 | 32.6 | 32.4 | 32.2 | 32.3 | 32.1 |
| 1700.00 | 21.9 | -26.9 | -15.7 | -22.3 | 1.2 | 0.7 | 22.1 | 23.1 | 1.5 | 33.3 | 33.9 | 32.6 | 32.4 | 32.3 | 32.3 | 32.1 |
| 1800.00 | 21.9 | -26.9 | -15.7 | -24.8 | 1.2 | 0.7 | 21.7 | 23.0 | 1.5 | 31.6 | 31.4 | 31.6 | 32.2 | 32.1 | 32.1 | 31.9 |
| 1900.00 | 21.9 | -27.0 | -15.6 | -27.7 | 1.2 | 0.7 | 21.7 | 23.0 | 1.5 | 30.9 | 31.9 | 31.4 | 31.8 | 31.7 | 31.5 | 31.4 |
| 2000.00 | 21.9 | -27.0 | -15.4 | -29.9 | 1.2 | 0.7 | 21.6 | 22.9 | 1.5 | 33.7 | 31.5 | 32.1 | 32.0 | 32.2 | 31.9 | 31.8 |
| 2100.00 | 21.9 | -27.1 | -14.9 | -29.0 | 1.2 | 0.7 | 21.7 | 23.1 | 1.5 | 30.8 | 33.3 | 31.8 | 31.7 | 31.8 | 31.6 | 31.6 |
| 2200.00 | 21.9 | -27.1 | -14.5 | -26.4 | 1.2 | 0.7 | 21.6 | 23.0 | 1.6 | 30.5 | 31.6 | 31.5 | 31.6 | 31.8 | 31.6 | 31.5 |
| 2300.00 | 21.9 | -27.3 | -14.0 | -23.8 | 1.2 | 0.7 | 21.5 | 23.1 | 1.6 | 31.5 | 31.4 | 31.5 | 31.6 | 31.7 | 31.6 | 31.4 |
| 2400.00 | 21.9 | -27.3 | -13.5 | -21.7 | 1.2 | 0.8 | 21.4 | 23.3 | 1.6 | 30.1 | 29.9 | 30.0 | 29.9 | 29.8 | 29.7 | 29.5 |
| 2500.00 | 21.9 | -27.4 | -13.1 | -20.2 | 1.2 | 0.8 | 21.2 | 23.3 | 1.7 | 29.4 | 30.1 | 29.7 | 29.8 | 29.9 | 29.6 | 29.4 |
| 2600.00 | 21.9 | -27.5 | -12.7 | -18.9 | 1.2 | 0.8 | 21.0 | 23.4 | 1.7 | 29.6 | 29.7 | 29.9 | 30.0 | 29.8 | 29.6 | 29.4 |
| 2700.00 | 21.8 | -27.7 | -12.3 | -18.0 | 1.2 | 0.8 | 20.5 | 22.9 | 1.8 | 31.4 | 31.2 | 30.2 | 30.1 | 29.9 | 29.7 | 29.5 |
| 2800.00 | 21.8 | -27.8 | -12.0 | -17.1 | 1.2 | 0.8 | 20.4 | 22.7 | 1.8 | 28.9 | 29.7 | 29.6 | 29.5 | 29.3 | 29.2 | 28.9 |
| 2900.00 | 21.8 | -27.9 | -11.5 | -16.1 | 1.2 | 0.8 | 20.1 | 22.5 | 1.8 | 29.4 | | 29.9 | 29.8 | 29.7 | 29.5 | 29.3 |
| 3000.00 | 21.7 | -27.9 | -11.2 | -15.4 | 1.2 | 0.8 | 20.3 | 22.8 | 1.8 | 28.1 | 28.7 | 28.3 | 28.4 | 28.3 | 28.1 | 27.7 |
| 3100.00 | 21.7 | -27.9 | -10.8 | -14.9 | 1.2 | 0.8 | 20.2 | 23.1 | 1.8 | 28.0 | 28.2 | 28.2 | 28.4 | 28.3 | 28.0 | 27.7 |
| 3200.00 | 21.7 | -28.0 | -10.6 | -14.5 | 1.2 | 0.8 | 20.2 | 23.0 | 1.8 | 28.8 | 29.7 | 28.9 | 28.9 | 28.9 | 28.7 | 28.5 |
| 3300.00 | 21.7 | -28.0 | -10.4 | -14.3 | 1.2 | 0.8 | 20.2 | 22.9 | 1.7 | 29.2 | 28.9 | 28.6 | 28.6 | 28.4 | 28.2 | 28.0 |
| 3400.00 | 21.7 | -28.1 | -10.3 | -14.1 | 1.2 | 0.8 | 20.0 | 22.8 | 1.8 | 29.7 | 29.3 | 28.9 | 28.8 | 28.8 | 28.7 | 28.5 |
| 3500.00 | 21.7 | -28.1 | -10.2 | -14.1 | 1.2 | 0.8 | 20.0 | 22.9 | 1.8 | 28.3 | 28.6 | 28.5 | 28.4 | 28.4 | 28.1 | 27.9 |
| 3600.00 | 21.8 | -28.2 | -10.3 | -14.2 | 1.2 | 0.8 | 20.0 | 22.9 | 1.7 | 27.9 | 27.8 | 28.5 | 28.6 | 28.5 | 28.2 | 28.0 |
| 3700.00 | 21.8 | -28.2 | -10.2 | -14.3 | 1.2 | 0.8 | 20.2 | 23.0 | 1.7 | 29.1 | 29.1 | 29.3 | 29.4 | 29.4 | 29.3 | 29.2 |
| 3800.00 | 21.8 | -28.2 | -10.4 | -14.5 | 1.2 | 0.8 | 20.6 | 23.1 | 1.7 | 28.7 | 29.3 | 28.9 | 28.9 | 28.9 | 28.8 | 28.7 |
| 3900.00 | 21.8 | -28.2 | -10.5 | -14.8 | 1.2 | 0.8 | 20.8 | 23.1 | 1.7 | 28.3 | 28.4 | 29.0 | 28.8 | 28.6 | 28.5 | 28.4 |
| 4000.00 | 21.9 | -28.3 | -10.7 | -15.1 | 1.2 | 0.8 | 20.9 | 23.3 | 1.7 | 29.8 | 28.8 | 29.0 | 28.7 | 28.8 | 28.7 | 28.5 |
| 4100.00 | 21.9 | -28.4 | -11.0 | -15.7 | 1.2 | 0.8 | 20.9 | 23.4 | 1.7 | 28.9 | 28.0 | 28.1 | 28.3 | 28.1 | 28.0 | 27.8 |
| 4200.00 | 22.0 | -28.4 | -11.2 | -16.3 | 1.2 | 0.8 | 21.0 | 23.3 | 1.7 | 27.9 | 28.0 | 28.3 | 28.1 | 28.4 | 28.2 | 28.0 |
| 4300.00 | 22.0 | -28.4 | -11.5 | -16.7 | 1.3 | 0.8 | 21.0 | 23.4 | 1.7 | 27.8 | 28.5 | 28.7 | 28.6 | 28.5 | 28.4 | 28.2 |
| 4400.00 | 22.1 | -28.3 | -12.0 | -17.4 | 1.3 | 0.8 | 21.0 | 23.5 | 1.7 | 29.1 | 27.7 | 28.7 | 28.4 | 28.4 | 28.3 | 28.1 |
| 4500.00 | 22.1 | -28.4 | -12.4 | -18.1 | 1.3 | 0.8 | 20.8 | 23.6 | 1.7 | 28.1 | 28.1 | 28.0 | 28.2 | 28.1 | 27.9 | 27.7 |
| 4600.00 | 22.2 | -28.6 | -13.0 | -18.9 | 1.3 | 0.8 | 20.4 | 23.6 | 1.7 | 27.3 | 28.2 | 28.1 | 27.9 | 27.9 | 27.6 | 27.4 |
| 4700.00 | 22.2 | -28.5 | -13.6 | -20.1 | 1.3 | 0.8 | 20.6 | 23.4 | 1.6 | 27.7 | 28.6 | 27.9 | 28.0 | 27.9 | 27.8 | 27.6 |
| 4800.00 | 22.3 | -28.6 | -14.0 | -20.6 | 1.3 | 0.8 | 20.7 | 23.2 | 1.7 | 28.0 | 28.3 | 28.2 | 28.2 | 28.2 | 28.1 | 28.0 |
| 4900.00 | 22.3 | -28.7 | -15.0 | -21.4 | 1.3 | 0.8 | 20.6 | 23.1 | 1.7 | 27.3 | 27.2 | 27.6 | 27.2 | 27.3 | 27.1 | 26.9 |
| 5000.00 | 22.4 | -28.7 | -15.6 | -22.9 | 1.3 | 0.8 | 20.7 | 23.1 | 1.7 | 26.9 | 26.8 | 27.1 | 27.1 | 27.0 | 26.9 | 26.7 |
| 5100.00 | 22.4 | -28.8 | -16.1 | -23.2 | 1.3 | 0.8 | 20.9 | 23.0 | 1.6 | 27.2 | 27.2 | 27.2 | 27.1 | 27.2 | 27.1 | 27.1 |
| 5200.00 | 22.4 | -28.8 | -17.3 | -24.2 | 1.3 | 0.8 | 20.9 | 22.9 | 1.7 | 27.7 | 27.5 | 27.5 | 27.5 | 27.6 | 27.6 | 27.6 |
| 5300.00 | 22.5 | -28.9 | -17.3 | -24.8 | 1.3 | 0.8 | 20.9 | 23.1 | 1.7 | 27.6 | 27.4 | 27.6 | 27.7 | 27.8 | 27.8 | 27.8 |
| 5400.00 | 22.5 | -29.1 | -17.7 | -24.1 | 1.3 | 0.8 | 20.7 | 23.2 | 1.7 | 27.2 | 26.9 | 26.9 | 27.0 | 27.0 | 26.9 | 26.8 |
| 5500.00 | 22.5 | -29.0 | -18.2 | -25.6 | 1.3 | 0.8 | 20.2 | 23.1 | 1.7 | 26.0 | 26.7 | 26.6 | 26.5 | 26.5 | 26.4 | 26.2 |
| 5600.00 | 22.6 | -29.1 | -16.8 | -24.4 | 1.3 | 0.8 | 19.6 | 22.7 | 1.7 | 26.2 | 26.6 | 26.5 | 26.5 | 26.3 | 26.1 | 25.8 |
| 5700.00 | 22.5 | -29.4 | -16.5 | -23.0 | 1.4 | 0.8 | 19.4 | 22.5 | 1.7 | 26.9 | 26.5 | 26.5 | 26.4 | 26.4 | 26.1 | 25.8 |
| 5800.00 | 22.6 | -29.2 | -15.8 | -23.4 | 1.3 | 0.8 | 19.3 | 22.2 | 1.8 | 26.0 | 26.2 | 26.2 | 26.0 | 25.9 | 25.6 | 25.4 |
| 5900.00 | 22.6 | -29.6 | -14.0 | -20.8 | 1.4 | 0.8 | 19.2 | 22.0 | 1.8 | 25.9 | 26.0 | 26.1 | 26.0 | 25.9 | 25.6 | 25.4 |
| 6000.00 | 22.4 | -29.6 | -13.8 | -20.4 | 1.4 | 0.9 | 18.9 | 21.3 | 2.0 | 25.9 | 25.3 | 25.4 | 25.3 | 25.1 | 24.9 | 24.5 |
| 6100.00 | 22.5 | -29.6 | -12.3 | -19.3 | 1.4 | 0.9 | 18.9 | 21.0 | 1.8 | 25.8 | 25.7 | 25.5 | 25.4 | 25.3 | 25.1 | 25.0 |
| 6200.00 | 22.4 | -30.1 | -11.0 | -17.0 | 1.4 | 0.9 | 18.9 | 20.6 | 1.9 | 25.0 | 25.2 | 25.1 | 25.0 | 24.9 | 24.8 | 24.7 |
| 6300.00 | 22.3 | -30.0 | -10.6 | -16.6 | 1.4 | 0.9 | 18.7 | 20.4 | 1.9 | 25.2 | 25.5 | 25.4 | 25.2 | 25.2 | 25.1 | 25.2 |
| 6400.00 | 22.3 | -30.4 | -9.3 | -14.9 | 1.4 | 0.9 | 18.7 | 20.2 | 1.9 | 24.6 | 24.5 | 24.5 | 24.3 | 24.3 | 24.2 | 24.4 |
| 6500.00 | 22.0 | -31.0 | -8.6 | -13.7 | 1.5 | 0.9 | 18.9 | 20.2 | 2.0 | 25.1 | 24.7 | 24.6 | 24.6 | 24.5 | 24.4 | 24.4 |
| 6600.00 | 22.0 | -31.0 | -8.0 | -13.1 | 1.4 | 0.9 | 19.1 | 20.4 | 2.0 | 25.1 | 25.1 | 25.0 | 24.9 | 24.9 | 24.8 | 24.8 |
| 6700.00 | 21.9 | -31.5 | -6.9 | -11.7 | 1.5 | 1.0 | 19.0 | 20.2 | 2.0 | 24.5 | 24.5 | 24.6 | 24.4 | 24.3 | 24.2 | 24.2 |
| 6800.00 | 21.5 | -32.2 | -6.4 | -10.8 | 1.6 | 1.0 | 19.0 | 20.1 | 2.0 | 24.8 | 24.7 | 24.5 | 24.4 | 24.3 | 24.2 | 24.3 |
| 6900.00 | 21.3 | -32.5 | -5.8 | -10.2 | 1.6 | 1.0 | 18.9 | 19.9 | 2.0 | 24.3 | 24.2 | 24.2 | 24.1 | 24.0 | 23.9 | 24.0 |
| 7000.00 | 21.0 | -33.4 | -5.1 | -9.3 | 1.7 | 1.0 | 19.1 | 19.9 | 2.1 | 23.3 | 23.2 | 23.1 | 23.1 | 22.9 | 22.9 | 23.1 |
| 7100.00 | 20.5 | -34.2 | -4.9 | -8.7 | 1.8 | 1.0 | 19.0 | 19.7 | 2.1 | 23.7 | 23.4 | 23.3 | 23.2 | 23.1 | 23.0 | 23.2 |
| 7200.00 | 20.2 | -34.8 | -4.4 | -8.1 | 1.9 | 1.1 | 18.7 | 19.3 | 2.1 | 23.7 | 23.6 | 23.6 | 23.5 | 23.4 | 23.3 | 23.5 |
| 7300.00 | 19.6 | -36.3 | -4.0 | -7.5 | 2.1 | 1.1 | 18.4 | 18.9 | 2.2 | 22.9 | 22.8 | 22.7 | 22.6 | 22.5 | 22.4 | 22.7 |
| 7400.00 | 19.0 | -37.4 | -4.0 | -7.1 | 2.5 | 1.1 | 18.0 | 18.4 | 2.1 | 22.9 | 22.7 | 22.7 | 22.6 | 22.4 | 22.4 | 22.8 |
| 7500.00 | 18.4 | -38.8 | -3.7 | -6.7 | 2.8 | 1.1 | 17.6 | 17.9 | 2.2 | 21.7 | 21.6 | 21.4 | 21.2 | 21.1 | 21.3 | 22.0 |
| 7600.00 | 17.4 | -41.0 | -3.7 | -6.3 | 3.8 | 1.1 | 17.3 | 17.6 | 2.3 | 22.7 | 22.3 | 22.1 | 21.9 | 21.7 | 21.6 | 22.3 |
| 7700.00 | 16.8 | -41.6 | -3.7 | -6.2 | 4.3 | 1.1 | 16.7 | 17.0 | 2.3 | 21.9 | 21.6 | 21.4 | 21.2 | 21.0 | 21.2 | 22.1 |
| 7800.00 | 16.0 | -44.8 | -3.5 | -5.8 | 6.2 | 1.1 | 16.0 | 16.2 | 2.4 | 21.1 | 20.8 | 20.5 | 20.3 | 20.2 | 20.7 | 21.8 |
| 7900.00 | 14.6 | -47.3 | -3.8 | -5.4 | 9.6 | 1.0 | 15.0 | 15.3 | 2.5 | 20.3 | 20.1 | 19.8 | 19.6 | 19.6 | 20.4 | 21.4 |
| 8000.00 | 13.6 | -48.8 | -3.7 | -5.2 | 12.4 | 1.0 | 13.8 | 14.1 | 2.5 | 18.4 | 18.1 | 17.8 | 17.8 | 18.5 | 19.4 | 19.3 |

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 81 mA, $I_{EN}$ = 2.28 mA @ Temperature = +25°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 41.5 | 41.4 | 41.4 | 41.3 | 41.2 | 41.0 | 40.6 |
| 1000.0 | 40.7 | 40.5 | 40.5 | 40.3 | 40.2 | 39.9 | 39.5 |
| 2000.0 | 38.8 | 38.5 | 38.5 | 38.3 | 38.1 | 37.8 | 37.5 |
| 4000.0 | 44.8 | 44.7 | 44.5 | 44.3 | 44.0 | 43.8 | 43.7 |
| 6000.0 | 33.4 | 33.2 | 33.0 | 32.7 | 32.3 | 31.9 | 31.6 |
| 8000.0 | 37.5 | 37.0 | 36.6 | 36.5 | 37.1 | 38.5 | 40.7 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 87 mA, $I_{EN}$ = 2.26 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.8 | -29.8 | -10.1 | -9.4 | 1.4 | 0.8 | 19.7 | 22.7 | 1.6 | 26.4 | 27.2 | 27.0 | 27.0 | 27.1 | 27.1 | 26.9 |
| 5600.00 | 21.9 | -29.9 | -9.9 | -9.5 | 1.4 | 0.8 | 19.7 | 22.6 | 1.6 | 25.9 | 25.4 | 26.0 | 26.1 | 26.0 | 25.9 | 25.6 |
| 5700.00 | 21.9 | -30.0 | -10.3 | -9.7 | 1.4 | 0.8 | 19.1 | 22.6 | 1.6 | 26.2 | 26.0 | 26.2 | 26.2 | 26.2 | 26.0 | 25.8 |
| 5800.00 | 22.1 | -29.9 | -10.0 | -9.8 | 1.4 | 0.8 | 19.1 | 22.6 | 1.6 | 26.0 | 26.6 | 26.1 | 26.2 | 26.1 | 26.0 | 25.7 |
| 5900.00 | 22.1 | -30.0 | -10.4 | -10.1 | 1.4 | 0.8 | 18.6 | 21.9 | 1.6 | 25.7 | 25.9 | 25.6 | 25.6 | 25.5 | 25.3 | 24.9 |
| 6000.00 | 22.2 | -30.1 | -10.0 | -10.0 | 1.4 | 0.8 | 18.6 | 21.4 | 1.6 | 24.4 | 24.1 | 24.2 | 24.3 | 24.1 | 23.8 | 23.6 |
| 6100.00 | 22.2 | -30.0 | -10.4 | -10.4 | 1.4 | 0.8 | 18.9 | 21.5 | 1.6 | 25.7 | 25.5 | 25.1 | 25.1 | 25.0 | 24.9 | 24.8 |
| 6200.00 | 22.3 | -30.2 | -10.0 | -10.3 | 1.4 | 0.8 | 19.0 | 21.3 | 1.6 | 24.9 | 24.6 | 24.7 | 24.7 | 24.6 | 24.6 | 24.6 |
| 6300.00 | 22.3 | -30.1 | -10.4 | -10.7 | 1.4 | 0.8 | 19.2 | 21.7 | 1.6 | 26.0 | 25.6 | 25.6 | 25.7 | 25.7 | 25.7 | 25.8 |
| 6400.00 | 22.4 | -30.4 | -10.0 | -10.6 | 1.4 | 0.8 | 19.7 | 21.8 | 1.6 | 25.6 | 25.2 | 25.5 | 25.6 | 25.6 | 25.7 | 25.9 |
| 6500.00 | 22.4 | -30.4 | -10.3 | -11.0 | 1.4 | 0.8 | 19.7 | 21.7 | 1.6 | 25.9 | 25.6 | 25.6 | 25.6 | 25.7 | 25.9 | 26.0 |
| 6600.00 | 22.5 | -30.7 | -10.0 | -11.0 | 1.4 | 0.8 | 19.4 | 21.3 | 1.6 | 25.8 | 25.3 | 25.6 | 25.7 | 25.8 | 25.9 | 26.1 |
| 6700.00 | 22.5 | -30.8 | -10.5 | -11.5 | 1.5 | 0.8 | 19.3 | 20.9 | 1.6 | 25.2 | 25.6 | 25.6 | 25.6 | 25.8 | 25.9 | 26.2 |
| 6800.00 | 22.6 | -31.0 | -10.2 | -11.4 | 1.5 | 0.8 | 19.5 | 21.1 | 1.7 | 26.0 | 25.6 | 25.8 | 26.0 | 26.1 | 26.3 | 26.6 |
| 6900.00 | 22.6 | -30.9 | -10.6 | -12.0 | 1.5 | 0.8 | 19.9 | 21.4 | 1.7 | 26.1 | 25.6 | 26.1 | 26.1 | 26.3 | 26.6 | 26.9 |
| 7000.00 | 22.6 | -31.4 | -10.4 | -12.0 | 1.5 | 0.9 | 19.9 | 21.3 | 1.7 | 25.6 | 25.6 | 25.4 | 25.6 | 25.9 | 26.2 | 26.5 |
| 7100.00 | 22.6 | -31.4 | -10.9 | -12.7 | 1.5 | 0.9 | 19.7 | 21.2 | 1.7 | 25.9 | 25.9 | 25.9 | 25.9 | 26.2 | 26.4 | 26.8 |
| 7200.00 | 22.6 | -31.8 | -10.6 | -12.8 | 1.6 | 0.9 | 20.1 | 21.3 | 1.8 | 26.0 | 25.5 | 25.7 | 25.9 | 26.1 | 26.4 | 26.8 |
| 7300.00 | 22.5 | -31.9 | -11.2 | -13.6 | 1.6 | 0.9 | 20.2 | 21.3 | 1.8 | 25.4 | 25.4 | 25.3 | 25.4 | 25.7 | 26.0 | 26.5 |
| 7400.00 | 22.6 | -32.4 | -10.9 | -13.8 | 1.7 | 0.9 | 20.0 | 21.2 | 1.9 | 25.5 | 25.4 | 25.3 | 25.6 | 25.8 | 26.1 | 26.6 |
| 7500.00 | 22.4 | -32.6 | -11.4 | -14.9 | 1.8 | 0.9 | 19.6 | 20.9 | 2.0 | 25.4 | 24.9 | 25.4 | 25.6 | 25.9 | 26.3 | 26.8 |
| 7600.00 | 22.4 | -33.4 | -10.7 | -15.0 | 1.9 | 1.0 | 19.9 | 21.0 | 2.0 | 24.9 | 25.6 | 25.4 | 25.5 | 25.8 | 26.1 | 26.6 |
| 7700.00 | 22.1 | -33.5 | -11.1 | -16.7 | 2.0 | 1.0 | 19.8 | 20.8 | 2.1 | 24.0 | 23.9 | 24.0 | 24.3 | 24.6 | 25.0 | 25.6 |
| 7800.00 | 21.9 | -34.5 | -10.0 | -16.7 | 2.2 | 1.0 | 19.6 | 20.6 | 2.2 | 25.3 | 25.0 | 25.0 | 25.2 | 25.4 | 25.8 | 26.4 |
| 7900.00 | 21.6 | -34.9 | -10.0 | -18.7 | 2.4 | 1.0 | 19.3 | 20.3 | 2.3 | 25.0 | 24.8 | 25.0 | 25.1 | 25.4 | 25.8 | 26.5 |
| 8000.00 | 21.2 | -36.2 | -8.6 | -17.4 | 2.7 | 1.1 | 18.5 | 19.7 | 2.4 | 24.2 | 23.9 | 24.4 | 24.6 | 24.9 | 25.5 | 26.4 |
| 8100.00 | 20.7 | -36.4 | -8.3 | -17.9 | 2.8 | 1.1 | 18.8 | 19.7 | 2.5 | 24.2 | 24.0 | 24.4 | 24.5 | 24.9 | 25.4 | 26.2 |
| 8200.00 | 19.9 | -38.7 | -6.8 | -15.1 | 3.6 | 1.2 | 18.8 | 19.6 | 2.7 | 23.2 | | 23.7 | 23.8 | 24.2 | 24.9 | 25.9 |
| 8300.00 | 19.4 | -38.5 | -6.5 | -14.3 | 3.6 | 1.2 | 18.8 | 19.5 | 2.8 | 23.4 | 23.7 | 23.9 | 24.0 | 24.5 | 25.1 | 26.2 |
| 8400.00 | 18.2 | -41.3 | -5.3 | -11.5 | 5.0 | 1.2 | 18.6 | 19.1 | 3.0 | 23.9 | 23.6 | 24.1 | 24.3 | 24.7 | 25.4 | 26.4 |
| 8500.00 | 17.6 | -41.4 | -4.9 | -10.6 | 5.1 | 1.2 | 18.1 | 18.6 | 3.2 | 22.7 | 22.5 | 22.8 | 23.1 | 23.8 | 24.8 | 25.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 37.6 | 37.5 | 37.4 | 37.2 | 36.9 | 36.7 | 36.5 |
| 6000.0 | 34.3 | 34.2 | 34.0 | 33.7 | 33.3 | 33.0 | 32.6 |
| 7000.0 | 44.1 | 44.0 | 43.8 | 43.5 | 43.2 | 43.0 | 42.9 |
| 8000.0 | 52.2 | 52.0 | 51.8 | 51.5 | 51.2 | 50.9 | 50.9 |
| 8500.0 | 60.5 | 60.2 | 59.9 | 59.6 | 59.3 | 59.2 | 59.6 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.8 | -4.0 | -8.8 | 1.1 | 0.9 | 3.3 |
| 300.00 | -2.3 | -2.4 | -6.6 | -11.6 | 1.0 | 0.7 | 2.0 |
| 400.00 | -1.7 | -1.8 | -9.3 | -13.8 | 1.0 | 0.5 | 1.5 |
| 500.00 | -1.4 | -1.5 | -12.0 | -15.6 | 1.0 | 0.5 | 1.4 |
| 600.00 | -1.3 | -1.3 | -14.9 | -17.0 | 1.0 | 0.4 | 1.3 |
| 700.00 | -1.2 | -1.3 | -18.1 | -18.0 | 1.0 | 0.4 | 1.2 |
| 800.00 | -1.2 | -1.2 | -22.2 | -18.2 | 1.0 | 0.4 | 1.3 |
| 900.00 | -1.1 | -1.2 | -27.6 | -18.0 | 1.0 | 0.4 | 1.2 |
| 1000.00 | -1.1 | -1.2 | -32.4 | -17.6 | 1.0 | 0.4 | 1.1 |
| 1100.00 | -1.1 | -1.2 | -27.4 | -17.3 | 1.0 | 0.4 | 1.2 |
| 1200.00 | -1.1 | -1.2 | -23.3 | -17.0 | 1.0 | 0.4 | 1.1 |
| 1300.00 | -1.1 | -1.2 | -20.8 | -16.5 | 1.0 | 0.4 | 1.3 |
| 1400.00 | -1.2 | -1.3 | -18.9 | -16.0 | 1.0 | 0.4 | 1.1 |
| 1500.00 | -1.2 | -1.3 | -17.5 | -15.6 | 1.0 | 0.4 | 1.2 |
| 1600.00 | -1.2 | -1.4 | -16.4 | -15.5 | 1.0 | 0.4 | 1.4 |
| 1700.00 | -1.3 | -1.4 | -15.5 | -15.4 | 1.0 | 0.5 | 1.2 |
| 1800.00 | -1.3 | -1.4 | -14.9 | -15.4 | 1.0 | 0.5 | 1.5 |
| 1900.00 | -1.3 | -1.5 | -14.4 | -15.2 | 1.0 | 0.5 | 1.3 |
| 2000.00 | -1.4 | -1.5 | -13.9 | -15.1 | 1.0 | 0.5 | 1.8 |
| 2100.00 | -1.4 | -1.6 | -13.7 | -15.3 | 1.0 | 0.5 | 1.5 |
| 2200.00 | -1.4 | -1.6 | -13.5 | -15.5 | 1.0 | 0.5 | 1.5 |
| 2300.00 | -1.4 | -1.6 | -13.3 | -15.8 | 1.0 | 0.5 | 1.7 |
| 2400.00 | -1.5 | -1.7 | -13.3 | -16.1 | 1.0 | 0.5 | 1.8 |
| 2500.00 | -1.5 | -1.8 | -13.2 | -16.6 | 1.0 | 0.6 | 1.8 |
| 2600.00 | -1.5 | -1.8 | -13.3 | -17.3 | 1.1 | 0.6 | 1.8 |
| 2700.00 | -1.5 | -1.9 | -13.4 | -18.1 | 1.1 | 0.6 | 1.9 |
| 2800.00 | -1.5 | -1.9 | -13.6 | -18.9 | 1.1 | 0.6 | 1.7 |
| 2900.00 | -1.6 | -2.0 | -13.8 | -19.8 | 1.1 | 0.6 | 2.2 |
| 3000.00 | -1.6 | -2.0 | -13.9 | -20.9 | 1.1 | 0.6 | 2.1 |
| 3100.00 | -1.6 | -2.0 | -14.0 | -22.5 | 1.1 | 0.6 | 1.7 |
| 3200.00 | -1.6 | -2.0 | -14.1 | -24.5 | 1.1 | 0.6 | 1.6 |
| 3300.00 | -1.6 | -1.9 | -14.2 | -26.4 | 1.1 | 0.6 | 2.0 |
| 3400.00 | -1.6 | -1.9 | -14.2 | -28.7 | 1.1 | 0.6 | 2.1 |
| 3500.00 | -1.6 | -1.9 | -14.2 | -29.9 | 1.1 | 0.6 | 1.9 |
| 3600.00 | -1.6 | -1.9 | -14.2 | -27.6 | 1.1 | 0.6 | 2.1 |
| 3700.00 | -1.6 | -1.9 | -14.1 | -24.8 | 1.1 | 0.6 | 2.2 |
| 3800.00 | -1.7 | -2.0 | -13.9 | -22.6 | 1.1 | 0.6 | 2.0 |
| 3900.00 | -1.7 | -2.0 | -13.7 | -20.8 | 1.1 | 0.6 | 1.8 |
| 4000.00 | -1.7 | -2.0 | -13.4 | -19.2 | 1.1 | 0.6 | 2.0 |
| 4100.00 | -1.7 | -2.0 | -13.1 | -17.7 | 1.1 | 0.6 | 2.0 |
| 4200.00 | -1.7 | -2.0 | -12.8 | -16.6 | 1.1 | 0.6 | 2.3 |
| 4300.00 | -1.8 | -2.1 | -12.5 | -15.8 | 1.1 | 0.6 | 2.0 |
| 4400.00 | -1.8 | -2.1 | -12.2 | -15.0 | 1.1 | 0.6 | 1.8 |
| 4500.00 | -1.8 | -2.1 | -12.0 | -14.3 | 1.1 | 0.6 | 1.8 |
| 4600.00 | -1.8 | -2.2 | -11.7 | -13.6 | 1.1 | 0.6 | 2.0 |
| 4700.00 | -1.8 | -2.2 | -11.5 | -13.1 | 1.1 | 0.6 | 2.2 |
| 4800.00 | -1.9 | -2.2 | -11.4 | -12.9 | 1.1 | 0.6 | 2.0 |
| 4900.00 | -1.9 | -2.3 | -11.3 | -12.5 | 1.1 | 0.6 | 2.3 |
| 5000.00 | -1.9 | -2.3 | -11.1 | -12.1 | 1.1 | 0.6 | 2.2 |
| 5100.00 | -1.9 | -2.3 | -11.0 | -11.9 | 1.1 | 0.6 | 1.8 |
| 5200.00 | -1.9 | -2.3 | -10.9 | -11.7 | 1.1 | 0.6 | 1.2 |
| 5300.00 | -1.9 | -2.3 | -10.9 | -11.6 | 1.1 | 0.6 | 2.0 |
| 5400.00 | -1.9 | -2.4 | -10.9 | -11.5 | 1.1 | 0.6 | 2.0 |
| 5500.00 | -1.9 | -2.4 | -10.9 | -11.3 | 1.1 | 0.6 | 2.3 |
| 5600.00 | -1.8 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 2.6 |
| 5700.00 | -1.8 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 2.2 |
| 5800.00 | -1.8 | -2.3 | -11.2 | -11.4 | 1.1 | 0.6 | 2.2 |
| 5900.00 | -1.8 | -2.3 | -11.6 | -11.6 | 1.1 | 0.6 | 2.2 |
| 6000.00 | -1.8 | -2.3 | -11.7 | -11.5 | 1.1 | 0.6 | 2.4 |
| 6100.00 | -1.7 | -2.3 | -12.0 | -11.7 | 1.1 | 0.6 | 1.7 |
| 6200.00 | -1.7 | -2.3 | -12.4 | -12.0 | 1.1 | 0.6 | 2.9 |
| 6300.00 | -1.7 | -2.3 | -12.6 | -12.0 | 1.1 | 0.6 | 2.2 |
| 6400.00 | -1.6 | -2.3 | -13.0 | -12.3 | 1.1 | 0.6 | 2.6 |
| 6500.00 | -1.7 | -2.3 | -13.2 | -12.4 | 1.1 | 0.6 | 1.9 |
| 6600.00 | -1.6 | -2.2 | -13.4 | -12.4 | 1.1 | 0.6 | 2.0 |
| 6700.00 | -1.6 | -2.2 | -13.9 | -12.8 | 1.1 | 0.6 | 2.1 |
| 6800.00 | -1.6 | -2.3 | -14.0 | -12.8 | 1.1 | 0.6 | 1.5 |
| 6900.00 | -1.6 | -2.3 | -14.1 | -12.8 | 1.1 | 0.6 | 1.4 |
| 7000.00 | -1.6 | -2.3 | -14.3 | -12.9 | 1.1 | 0.6 | 1.9 |
| 7100.00 | -1.7 | -2.3 | -14.1 | -12.8 | 1.1 | 0.6 | 2.3 |
| 7200.00 | -1.7 | -2.3 | -14.0 | -12.8 | 1.1 | 0.6 | 1.7 |
| 7300.00 | -1.7 | -2.4 | -13.8 | -12.6 | 1.1 | 0.6 | 1.8 |
| 7400.00 | -1.8 | -2.5 | -13.3 | -12.2 | 1.1 | 0.6 | 2.3 |
| 7500.00 | -1.9 | -2.5 | -12.8 | -12.0 | 1.1 | 0.6 | 2.3 |
| 7600.00 | -2.0 | -2.6 | -12.4 | -11.7 | 1.1 | 0.6 | 2.1 |
| 7700.00 | -2.1 | -2.7 | -11.7 | -11.1 | 1.1 | 0.6 | 2.8 |
| 7800.00 | -2.1 | -2.8 | -11.2 | -10.7 | 1.1 | 0.6 | 2.3 |
| 7900.00 | -2.4 | -3.0 | -10.7 | -10.1 | 1.2 | 0.6 | 2.6 |
| 8000.00 | -2.4 | -3.0 | -9.8 | -9.5 | 1.1 | 0.6 | 2.1 |

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 39.7 | 38.1 | 35.2 | 31.0 | 26.0 | 19.4 | 16.7 |
| 1000.0 | 43.3 | 41.3 | 37.6 | 32.7 | 26.4 | 17.9 | 15.4 |
| 2000.0 | 43.2 | 43.2 | 41.6 | 38.2 | 33.3 | 26.4 | 18.4 |
| 4000.0 | 43.7 | 43.7 | 43.8 | 42.7 | 40.1 | 35.7 | 29.6 |
| 6000.0 | 43.6 | 43.7 | 44.5 | 42.9 | 39.2 | 33.6 | 25.1 |
| 8000.0 | 41.5 | 42.2 | 43.5 | 43.1 | 39.9 | 34.6 | 26.1 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 71.4 | 71.2 | 70.7 | 69.9 | 67.1 | 58.1 | 47.2 |
| 1000.0 | 71.0 | 71.1 | 71.3 | 71.4 | 69.0 | 54.4 | 61.4 |
| 2000.0 | 70.5 | 70.4 | 70.4 | 70.3 | 69.9 | 66.5 | 55.0 |
| 4000.0 | 74.4 | 74.4 | 74.4 | 74.4 | 74.7 | 75.0 | 74.6 |
| 6000.0 | 74.2 | 74.0 | 73.7 | 73.4 | 73.0 | 72.1 | 67.2 |
| 8000.0 | 84.5 | 84.4 | 84.3 | 84.3 | 84.1 | 83.4 | 80.3 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 14.1 | 11.1 |
| 1000.0 | 13.1 | 10.7 |
| 2000.0 | 15.1 | 12.3 |
| 4000.0 | 17.5 | 13.7 |
| 6000.0 | 18.0 | 14.5 |
| 8000.0 | 18.0 | 13.4 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.6 | -2.3 | -20.3 | -17.9 | 1.1 | 0.7 | 2.2 |
| 5600.00 | -1.6 | -2.3 | -20.9 | -17.9 | 1.1 | 0.7 | 2.1 |
| 5700.00 | -1.6 | -2.3 | -20.7 | -17.6 | 1.1 | 0.7 | 2.4 |
| 5800.00 | -1.6 | -2.3 | -20.1 | -17.0 | 1.1 | 0.6 | 2.2 |
| 5900.00 | -1.6 | -2.3 | -19.2 | -16.4 | 1.1 | 0.6 | 2.0 |
| 6000.00 | -1.6 | -2.3 | -18.4 | -15.7 | 1.1 | 0.6 | 2.1 |
| 6100.00 | -1.6 | -2.3 | -17.1 | -14.9 | 1.1 | 0.6 | 2.3 |
| 6200.00 | -1.6 | -2.4 | -16.3 | -14.2 | 1.1 | 0.6 | 2.4 |
| 6300.00 | -1.7 | -2.4 | -15.3 | -13.5 | 1.1 | 0.6 | 2.1 |
| 6400.00 | -1.7 | -2.4 | -14.5 | -12.9 | 1.1 | 0.6 | 2.1 |
| 6500.00 | -1.7 | -2.5 | -13.7 | -12.3 | 1.1 | 0.6 | 2.3 |
| 6600.00 | -1.8 | -2.6 | -13.0 | -11.7 | 1.1 | 0.6 | 2.1 |
| 6700.00 | -1.8 | -2.6 | -12.1 | -11.1 | 1.1 | 0.6 | 2.3 |
| 6800.00 | -1.9 | -2.7 | -11.5 | -10.6 | 1.1 | 0.6 | 2.4 |
| 6900.00 | -2.0 | -2.8 | -10.8 | -10.1 | 1.1 | 0.6 | 2.4 |
| 7000.00 | -2.1 | -2.9 | -10.2 | -9.6 | 1.1 | 0.6 | 2.4 |
| 7100.00 | -2.2 | -3.0 | -9.6 | -9.1 | 1.1 | 0.6 | 2.6 |
| 7200.00 | -2.3 | -3.1 | -9.1 | -8.7 | 1.1 | 0.6 | 2.6 |
| 7300.00 | -2.4 | -3.2 | -8.5 | -8.2 | 1.1 | 0.6 | 2.7 |
| 7400.00 | -2.5 | -3.3 | -8.0 | -7.8 | 1.1 | 0.6 | 2.5 |
| 7500.00 | -2.7 | -3.5 | -7.5 | -7.3 | 1.1 | 0.6 | 2.5 |
| 7600.00 | -2.9 | -3.6 | -7.1 | -7.0 | 1.1 | 0.6 | 2.8 |
| 7700.00 | -3.1 | -3.8 | -6.6 | -6.5 | 1.1 | 0.6 | 2.3 |
| 7800.00 | -3.2 | -4.0 | -6.2 | -6.2 | 1.1 | 0.6 | 2.8 |
| 7900.00 | -3.4 | -4.2 | -5.8 | -5.8 | 1.1 | 0.6 | 2.9 |
| 8000.00 | -3.6 | -4.3 | -5.5 | -5.6 | 1.2 | 0.6 | 3.4 |
| 8100.00 | -3.8 | -4.5 | -5.1 | -5.2 | 1.2 | 0.6 | 3.0 |
| 8200.00 | -4.0 | -4.7 | -4.9 | -5.0 | 1.2 | 0.6 | 2.9 |
| 8300.00 | -4.2 | -4.9 | -4.5 | -4.7 | 1.2 | 0.6 | 3.0 |
| 8400.00 | -4.4 | -5.1 | -4.3 | -4.6 | 1.2 | 0.6 | 3.1 |
| 8500.00 | -4.6 | -5.3 | -4.0 | -4.2 | 1.2 | 0.6 | 2.1 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 17.0 | 13.9 |
| 6000.0 | 19.0 | 14.8 |
| 7000.0 | 20.4 | 15.7 |
| 8000.0 | 20.5 | 14.5 |
| 8500.0 | 19.2 | 12.9 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.4 | 70.3 | 70.1 | 69.8 | 69.5 | 68.4 | 64.5 | 42.7 | 42.5 | 42.7 | 41.8 | 40.9 | 37.7 | 31.9 |
| 6000.0 | 77.1 | 76.9 | 76.8 | 76.6 | 76.3 | 76.0 | 74.8 | 40.6 | 41.2 | 41.7 | 41.9 | 40.4 | 36.1 | 28.4 |
| 7000.0 | 88.8 | 88.8 | 88.6 | 88.4 | 88.1 | 87.6 | 86.6 | 41.6 | 40.1 | 41.4 | 42.2 | 39.8 | 35.5 | 29.6 |
| 8000.0 | 84.5 | 84.5 | 84.5 | 84.5 | 84.3 | 83.9 | 83.0 | 41.1 | 41.7 | 42.0 | 41.5 | 40.7 | 38.7 | 33.7 |
| 8500.0 | 92.0 | 91.8 | 91.7 | 91.6 | 91.5 | 93.5 | 90.7 | 42.1 | 43.0 | 43.8 | 41.7 | 36.7 | 29.2 | 18.3 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 95 mA, $I_{EN}$ = 2.49 mA @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.4 | -33.6 | -1.9 | -4.5 | 1.4 | 0.9 | 21.3 | 22.5 | 4.6 | 32.7 | 33.8 | 33.9 | 34.5 | 34.5 | 34.2 | 33.9 |
| 300.00 | 20.2 | -28.7 | -5.9 | -8.7 | 1.2 | 0.8 | 21.6 | 22.7 | 2.4 | 31.4 | 33.2 | 34.9 | 33.8 | 34.7 | 34.3 | 34.2 |
| 400.00 | 21.7 | -27.1 | -12.3 | -14.5 | 1.2 | 0.7 | 22.0 | 23.0 | 1.9 | 32.2 | 34.8 | 35.6 | 35.5 | 36.1 | 35.8 | 35.5 |
| 500.00 | 22.0 | -26.8 | -17.8 | -16.5 | 1.1 | 0.6 | 22.2 | 23.1 | 1.6 | 32.9 | 33.9 | 34.2 | 35.2 | 36.3 | 36.2 | 36.0 |
| 600.00 | 22.1 | -26.8 | -17.4 | -15.4 | 1.1 | 0.6 | 22.4 | 23.2 | 1.5 | 32.8 | 35.6 | 36.6 | 36.5 | 36.6 | 36.9 | 36.7 |
| 700.00 | 22.1 | -26.8 | -15.7 | -14.5 | 1.1 | 0.6 | 22.6 | 23.4 | 1.4 | 34.4 | 33.2 | 35.3 | 36.1 | 36.1 | 36.0 | 35.6 |
| 800.00 | 22.1 | -26.8 | -14.7 | -14.1 | 1.1 | 0.6 | 22.7 | 23.4 | 1.4 | 34.5 | 35.9 | 36.8 | 36.7 | 36.5 | 36.5 | 36.4 |
| 900.00 | 22.0 | -26.9 | -14.3 | -14.1 | 1.1 | 0.6 | 22.7 | 23.5 | 1.4 | 33.8 | 36.7 | 35.2 | 35.8 | 36.3 | 36.2 | 36.2 |
| 1000.00 | 22.0 | -26.9 | -14.1 | -14.2 | 1.1 | 0.6 | 22.8 | 23.5 | 1.5 | 34.2 | 34.0 | 36.0 | 35.7 | 36.1 | 36.1 | 36.1 |
| 1100.00 | 22.1 | -27.0 | -14.2 | -14.5 | 1.1 | 0.6 | 22.7 | 23.5 | 1.4 | 32.1 | 35.8 | 35.0 | 36.0 | 35.9 | 36.2 | 36.0 |
| 1200.00 | 22.1 | -27.0 | -14.3 | -15.0 | 1.1 | 0.7 | 22.8 | 23.6 | 1.4 | 33.5 | 35.5 | 35.0 | 35.2 | 35.5 | 35.5 | 35.4 |
| 1300.00 | 22.1 | -27.0 | -14.5 | -15.7 | 1.1 | 0.7 | 22.8 | 23.7 | 1.4 | 34.3 | 35.3 | 34.4 | 35.4 | 35.5 | 35.2 | 35.2 |
| 1400.00 | 22.1 | -27.0 | -14.9 | -16.5 | 1.1 | 0.7 | 22.7 | 23.6 | 1.4 | 35.8 | 35.1 | 34.9 | 35.3 | 35.1 | 35.2 | 35.3 |
| 1500.00 | 22.1 | -27.1 | -15.3 | -17.6 | 1.2 | 0.7 | 22.7 | 23.7 | 1.5 | 35.7 | 35.1 | 34.5 | 34.8 | 34.7 | 34.3 | 34.4 |
| 1600.00 | 22.1 | -27.1 | -15.6 | -18.8 | 1.2 | 0.7 | 22.7 | 23.7 | 1.4 | 33.3 | 34.3 | 33.9 | 34.6 | 34.2 | 34.3 | 34.3 |
| 1700.00 | 22.1 | -27.2 | -15.7 | -20.0 | 1.2 | 0.7 | 22.9 | 23.9 | 1.5 | 32.2 | 32.8 | 34.6 | 34.5 | 34.2 | 34.3 | 34.3 |
| 1800.00 | 22.2 | -27.2 | -16.0 | -22.0 | 1.2 | 0.7 | 22.6 | 23.7 | 1.5 | 31.9 | 34.2 | 32.6 | 34.1 | 34.1 | 34.2 | 34.1 |
| 1900.00 | 22.2 | -27.3 | -16.1 | -24.3 | 1.2 | 0.7 | 22.6 | 23.8 | 1.5 | 32.0 | 33.5 | 33.6 | 33.2 | 33.7 | 33.6 | 33.6 |
| 2000.00 | 22.2 | -27.3 | -16.1 | -27.1 | 1.2 | 0.7 | 22.4 | 23.7 | 1.6 | 33.5 | 34.7 | 32.8 | 33.8 | 33.9 | 34.0 | 33.9 |
| 2100.00 | 22.2 | -27.3 | -15.8 | -29.3 | 1.2 | 0.7 | 22.6 | 23.9 | 1.6 | 32.3 | 32.0 | 33.4 | 33.8 | 33.7 | 33.8 | 33.7 |
| 2200.00 | 22.2 | -27.4 | -15.4 | -28.9 | 1.2 | 0.7 | 22.5 | 23.8 | 1.6 | 31.6 | 33.7 | 32.6 | 33.5 | 33.5 | 33.6 | 33.8 |
| 2300.00 | 22.2 | -27.4 | -15.0 | -26.3 | 1.2 | 0.7 | 22.4 | 23.9 | 1.6 | 33.6 | 33.4 | 32.4 | 33.4 | 33.2 | 33.5 | 33.6 |
| 2400.00 | 22.2 | -27.5 | -14.5 | -23.9 | 1.2 | 0.7 | 22.3 | 24.0 | 1.7 | 31.0 | 31.3 | 31.9 | 31.9 | 31.9 | 31.9 | 31.8 |
| 2500.00 | 22.2 | -27.7 | -14.1 | -22.1 | 1.2 | 0.7 | 22.1 | 24.0 | 1.7 | 31.5 | 31.3 | 31.7 | 31.5 | 31.9 | 31.7 | 31.6 |
| 2600.00 | 22.2 | -27.7 | -13.7 | -20.6 | 1.2 | 0.8 | 21.9 | 24.1 | 1.7 | 31.0 | 31.1 | 31.6 | 31.7 | 31.9 | 31.8 | 31.6 |
| 2700.00 | 22.2 | -27.8 | -13.2 | -19.4 | 1.2 | 0.8 | 21.5 | 23.6 | 1.7 | 30.4 | 31.4 | 31.7 | 31.7 | 31.8 | 31.8 | 31.8 |
| 2800.00 | 22.1 | -27.9 | -12.8 | -18.3 | 1.2 | 0.8 | 21.3 | 23.4 | 1.7 | 33.7 | 32.0 | 31.4 | 31.5 | 31.3 | 31.3 | 31.2 |
| 2900.00 | 22.1 | -28.0 | -12.3 | -17.2 | 1.2 | 0.8 | 21.1 | 23.2 | 1.8 | 33.0 | | 31.6 | 31.8 | 31.5 | 31.6 | 31.6 |
| 3000.00 | 22.1 | -28.1 | -11.9 | -16.5 | 1.2 | 0.8 | 21.3 | 23.5 | 1.8 | 30.0 | 29.7 | 29.9 | 30.3 | 30.3 | 30.2 | 30.0 |
| 3100.00 | 22.1 | -28.1 | -11.5 | -15.9 | 1.2 | 0.8 | 21.2 | 23.7 | 1.7 | 29.1 | 30.8 | 30.3 | 30.1 | 30.2 | 30.1 | 29.9 |
| 3200.00 | 22.1 | -28.2 | -11.2 | -15.5 | 1.2 | 0.8 | 21.2 | 23.7 | 1.8 | 29.9 | 30.7 | 30.8 | 30.7 | 30.8 | 30.7 | 30.7 |
| 3300.00 | 22.1 | -28.2 | -11.0 | -15.3 | 1.2 | 0.8 | 21.2 | 23.6 | 1.7 | 30.9 | 30.4 | 30.4 | 30.2 | 30.4 | 30.3 | 30.2 |
| 3400.00 | 22.1 | -28.2 | -10.8 | -15.0 | 1.2 | 0.8 | 21.0 | 23.4 | 1.8 | 30.7 | 30.4 | 30.7 | 30.3 | 30.6 | 30.6 | 30.6 |
| 3500.00 | 22.1 | -28.3 | -10.8 | -15.0 | 1.2 | 0.8 | 21.1 | 23.5 | 1.8 | 29.0 | 29.9 | 30.0 | 30.0 | 30.1 | 30.1 | 30.0 |
| 3600.00 | 22.1 | -28.3 | -10.8 | -15.1 | 1.2 | 0.8 | 21.1 | 23.5 | 1.7 | 29.8 | 29.9 | 30.0 | 30.1 | 30.1 | 30.2 | 30.1 |
| 3700.00 | 22.1 | -28.3 | -10.7 | -15.2 | 1.2 | 0.8 | 21.2 | 23.7 | 1.7 | 29.9 | 30.8 | 30.8 | 30.7 | 31.0 | 31.0 | 31.2 |
| 3800.00 | 22.1 | -28.4 | -10.9 | -15.4 | 1.2 | 0.8 | 21.5 | 23.8 | 1.7 | 30.3 | 30.0 | 30.3 | 30.2 | 30.6 | 30.6 | 30.7 |
| 3900.00 | 22.2 | -28.4 | -11.0 | -15.7 | 1.2 | 0.8 | 21.6 | 23.8 | 1.7 | 29.5 | 30.0 | 30.0 | 30.2 | 30.3 | 30.3 | 30.5 |
| 4000.00 | 22.2 | -28.4 | -11.1 | -16.1 | 1.2 | 0.8 | 21.8 | 24.0 | 1.7 | 28.4 | 30.4 | 30.3 | 30.3 | 30.3 | 30.4 | 30.6 |
| 4100.00 | 22.2 | -28.5 | -11.4 | -16.7 | 1.2 | 0.8 | 21.9 | 24.1 | 1.7 | 29.1 | 29.1 | 29.7 | 29.8 | 29.9 | 29.9 | 29.9 |
| 4200.00 | 22.3 | -28.4 | -11.6 | -17.4 | 1.2 | 0.8 | 21.9 | 24.0 | 1.7 | 29.0 | 29.8 | 29.6 | 29.7 | 29.8 | 30.1 | 30.2 |
| 4300.00 | 22.4 | -28.5 | -11.9 | -17.8 | 1.2 | 0.8 | 22.0 | 24.0 | 1.7 | 29.9 | 30.2 | 29.6 | 29.9 | 30.2 | 30.2 | 30.3 |
| 4400.00 | 22.4 | -28.5 | -12.4 | -18.7 | 1.2 | 0.8 | 21.9 | 24.1 | 1.7 | 28.7 | 29.0 | 29.7 | 29.8 | 30.0 | 30.1 | 30.3 |
| 4500.00 | 22.5 | -28.6 | -12.8 | -19.6 | 1.3 | 0.8 | 21.8 | 24.1 | 1.7 | 29.9 | 29.1 | 29.7 | 29.6 | 29.8 | 29.8 | 29.9 |
| 4600.00 | 22.5 | -28.7 | -13.4 | -20.5 | 1.3 | 0.8 | 21.5 | 24.0 | 1.7 | 30.3 | 28.9 | 29.1 | 29.4 | 29.5 | 29.5 | 29.6 |
| 4700.00 | 22.5 | -28.7 | -14.0 | -22.0 | 1.3 | 0.8 | 21.6 | 23.9 | 1.7 | 29.2 | 29.0 | 29.3 | 29.5 | 29.5 | 29.6 | 29.7 |
| 4800.00 | 22.6 | -28.8 | -14.5 | -22.6 | 1.3 | 0.8 | 21.6 | 23.8 | 1.7 | 29.1 | 29.1 | 29.4 | 29.4 | 29.6 | 29.9 | 30.1 |
| 4900.00 | 22.6 | -28.9 | -15.5 | -23.7 | 1.3 | 0.8 | 21.4 | 23.7 | 1.6 | 28.4 | 28.7 | 28.7 | 28.7 | 28.9 | 29.0 | 29.1 |
| 5000.00 | 22.7 | -28.9 | -16.1 | -25.7 | 1.3 | 0.8 | 21.4 | 23.6 | 1.7 | 28.1 | 28.6 | 28.4 | 28.5 | 28.6 | 28.7 | 28.7 |
| 5100.00 | 22.8 | -29.0 | -16.7 | -26.2 | 1.3 | 0.8 | 21.7 | 23.6 | 1.6 | 28.0 | 28.1 | 28.2 | 28.4 | 28.5 | 28.8 | 29.0 |
| 5200.00 | 22.7 | -29.0 | -18.0 | -27.7 | 1.3 | 0.8 | 21.7 | 23.6 | 1.7 | 28.1 | 28.5 | 28.3 | 28.6 | 28.8 | 29.1 | 29.4 |
| 5300.00 | 22.8 | -29.0 | -18.1 | -28.3 | 1.3 | 0.8 | 21.7 | 23.6 | 1.7 | 28.9 | 28.1 | 28.5 | 28.8 | 29.0 | 29.3 | 29.6 |
| 5400.00 | 22.8 | -29.3 | -18.7 | -27.5 | 1.3 | 0.8 | 21.4 | 23.6 | 1.7 | 27.9 | 28.0 | 28.1 | 28.1 | 28.4 | 28.6 | 28.8 |
| 5500.00 | 22.8 | -29.2 | -19.3 | -30.1 | 1.3 | 0.8 | 21.0 | 23.4 | 1.7 | 27.3 | 27.7 | 27.6 | 27.8 | 28.1 | 28.2 | 28.3 |
| 5600.00 | 22.9 | -29.3 | -17.8 | -27.7 | 1.3 | 0.8 | 20.4 | 23.0 | 1.8 | 27.9 | 27.2 | 27.7 | 27.7 | 27.9 | 28.0 | 28.0 |
| 5700.00 | 22.8 | -29.5 | -17.6 | -25.8 | 1.4 | 0.8 | 20.2 | 22.8 | 1.8 | 27.3 | 27.4 | 27.5 | 27.7 | 27.9 | 28.0 | 28.0 |
| 5800.00 | 22.9 | -29.4 | -16.7 | -26.2 | 1.3 | 0.8 | 20.0 | 22.5 | 1.8 | 26.8 | 27.3 | 27.2 | 27.3 | 27.4 | 27.5 | 27.5 |
| 5900.00 | 22.9 | -29.7 | -14.7 | -22.6 | 1.3 | 0.8 | 20.0 | 22.3 | 1.8 | 26.7 | 27.5 | 27.1 | 27.3 | 27.3 | 27.4 | 27.4 |
| 6000.00 | 22.7 | -29.8 | -14.5 | -22.3 | 1.4 | 0.8 | 19.6 | 21.5 | 2.0 | 27.0 | 26.5 | 26.5 | 26.6 | 26.6 | 26.6 | 26.6 |
| 6100.00 | 22.9 | -29.8 | -12.9 | -20.5 | 1.3 | 0.8 | 19.7 | 21.3 | 1.8 | 26.3 | 26.6 | 26.5 | 26.6 | 26.7 | 26.7 | 26.8 |
| 6200.00 | 22.7 | -30.3 | -11.4 | -17.9 | 1.4 | 0.9 | 19.6 | 21.0 | 1.9 | 26.2 | 26.5 | 26.2 | 26.2 | 26.3 | 26.4 | 26.4 |
| 6300.00 | 22.6 | -30.3 | -11.0 | -17.5 | 1.4 | 0.9 | 19.5 | 20.8 | 1.9 | 26.0 | 26.2 | 26.2 | 26.4 | 26.4 | 26.6 | 26.8 |
| 6400.00 | 22.7 | -30.5 | -9.6 | -15.6 | 1.4 | 0.9 | 19.4 | 20.7 | 1.9 | 25.2 | 25.3 | 25.3 | 25.5 | 25.6 | 25.8 | 26.0 |
| 6500.00 | 22.4 | -31.1 | -8.8 | -14.2 | 1.4 | 0.9 | 19.6 | 20.8 | 1.9 | 25.1 | 25.6 | 25.7 | 25.6 | 25.8 | 25.9 | 26.1 |
| 6600.00 | 22.4 | -31.1 | -8.2 | -13.6 | 1.4 | 0.9 | 19.8 | 20.9 | 2.0 | 26.1 | 25.9 | 25.9 | 26.0 | 26.1 | 26.3 | 26.4 |
| 6700.00 | 22.2 | -31.7 | -7.0 | -12.0 | 1.5 | 1.0 | 19.6 | 20.6 | 2.0 | 25.3 | 25.5 | 25.5 | 25.5 | 25.6 | 25.7 | 25.9 |
| 6800.00 | 21.8 | -32.4 | -6.6 | -11.1 | 1.6 | 1.0 | 19.6 | 20.5 | 2.0 | 25.6 | 25.6 | 25.5 | 25.6 | 25.6 | 25.8 | 25.9 |
| 6900.00 | 21.7 | -32.7 | -5.9 | -10.4 | 1.6 | 1.0 | 19.5 | 20.3 | 2.0 | 24.8 | 24.9 | 25.0 | 25.1 | 25.3 | 25.4 | 25.6 |
| 7000.00 | 21.3 | -33.5 | -5.2 | -9.4 | 1.6 | 1.0 | 19.6 | 20.2 | 2.1 | 24.0 | 24.2 | 24.2 | 24.2 | 24.4 | 24.5 | 24.6 |
| 7100.00 | 20.8 | -34.3 | -5.0 | -8.9 | 1.8 | 1.0 | 19.3 | 19.9 | 2.1 | 24.3 | 24.3 | 24.4 | 24.5 | 24.6 | 24.7 | 24.8 |
| 7200.00 | 20.5 | -34.9 | -4.5 | -8.2 | 1.9 | 1.0 | 19.0 | 19.5 | 2.1 | 24.6 | 24.6 | 24.6 | 24.7 | 24.8 | 24.9 | 25.1 |
| 7300.00 | 19.9 | -36.4 | -4.1 | -7.5 | 2.1 | 1.1 | 18.7 | 19.0 | 2.2 | 23.8 | 24.0 | 23.8 | 23.9 | 24.0 | 24.1 | 24.2 |
| 7400.00 | 19.3 | -37.7 | -4.1 | -7.2 | 2.5 | 1.1 | 18.3 | 18.6 | 2.2 | 23.9 | 23.8 | 23.9 | 24.0 | 24.0 | 24.1 | 24.2 |
| 7500.00 | 18.6 | -39.0 | -3.7 | -6.8 | 2.9 | 1.1 | 17.8 | 18.1 | 2.2 | 22.9 | 22.9 | 22.7 | 22.8 | 22.9 | 22.9 | 22.9 |
| 7600.00 | 17.7 | -41.5 | -3.7 | -6.4 | 4.0 | 1.1 | 17.4 | 17.7 | 2.3 | 23.6 | 23.6 | 23.4 | 23.4 | 23.5 | 23.4 | 23.4 |
| 7700.00 | 17.1 | -42.2 | -3.8 | -6.3 | 4.6 | 1.1 | 16.8 | 17.1 | 2.3 | 23.1 | 22.8 | 22.9 | 22.8 | 22.9 | 22.8 | 22.8 |
| 7800.00 | 16.2 | -45.3 | -3.6 | -5.9 | 6.6 | 1.1 | 16.1 | 16.3 | 2.4 | 22.1 | 22.0 | 22.0 | 22.1 | 22.1 | 22.0 | 22.3 |
| 7900.00 | 14.8 | -47.8 | -3.9 | -5.5 | 10.2 | 1.0 | 15.1 | 15.3 | 2.5 | 21.6 | 21.6 | 21.4 | 21.4 | 21.4 | 21.3 | 21.7 |
| 8000.00 | 13.8 | -49.3 | -3.8 | -5.3 | 13.1 | 1.0 | 13.9 | 14.1 | 2.5 | 19.8 | 19.7 | 19.7 | 19.6 | 19.6 | 19.8 | 19.3 |

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 95 mA, $I_{EN}$ = 2.49 mA @ Temperature = +25°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 44.7 | 44.6 | 44.6 | 44.5 | 44.4 | 44.3 | 44.0 |
| 1000.0 | 43.8 | 43.7 | 43.7 | 43.5 | 43.3 | 43.1 | 42.8 |
| 2000.0 | 41.5 | 41.2 | 41.2 | 41.0 | 40.8 | 40.6 | 40.4 |
| 4000.0 | 45.1 | 45.0 | 44.9 | 44.7 | 44.5 | 44.2 | 44.2 |
| 6000.0 | 34.1 | 33.9 | 33.7 | 33.4 | 33.1 | 32.8 | 32.6 |
| 8000.0 | 38.5 | 38.1 | 37.8 | 37.6 | 37.8 | 39.0 | 41.1 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 102 mA, $I_{EN}$ = 2.47 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 22.1 | -30.0 | -10.3 | -9.7 | 1.4 | 0.8 | 20.5 | 23.2 | 1.6 | 27.0 | 28.2 | 28.0 | 28.4 | 28.6 | 28.7 | 28.9 |
| 5600.00 | 22.2 | -30.0 | -10.1 | -9.8 | 1.3 | 0.8 | 20.3 | 23.0 | 1.6 | 27.3 | 27.1 | 27.1 | 27.3 | 27.5 | 27.7 | 27.8 |
| 5700.00 | 22.2 | -30.1 | -10.5 | -10.0 | 1.4 | 0.8 | 19.9 | 22.9 | 1.6 | 27.0 | 27.1 | 27.2 | 27.4 | 27.6 | 27.8 | 27.9 |
| 5800.00 | 22.4 | -30.1 | -10.2 | -10.1 | 1.4 | 0.8 | 19.9 | 22.9 | 1.6 | 26.8 | 26.7 | 27.1 | 27.3 | 27.5 | 27.6 | 27.7 |
| 5900.00 | 22.3 | -30.1 | -10.6 | -10.4 | 1.4 | 0.8 | 19.3 | 22.1 | 1.6 | 26.8 | 26.8 | 26.8 | 26.7 | 26.9 | 27.0 | 27.0 |
| 6000.00 | 22.5 | -30.2 | -10.2 | -10.3 | 1.4 | 0.8 | 19.1 | 21.6 | 1.6 | 25.4 | 25.3 | 25.5 | 25.4 | 25.6 | 25.6 | 25.6 |
| 6100.00 | 22.5 | -30.1 | -10.6 | -10.6 | 1.4 | 0.8 | 19.5 | 21.8 | 1.6 | 26.0 | 26.2 | 26.0 | 26.1 | 26.3 | 26.5 | 26.6 |
| 6200.00 | 22.6 | -30.3 | -10.2 | -10.5 | 1.4 | 0.8 | 19.6 | 21.7 | 1.6 | 25.4 | 25.0 | 25.6 | 25.8 | 25.9 | 26.1 | 26.3 |
| 6300.00 | 22.6 | -30.2 | -10.6 | -10.9 | 1.4 | 0.8 | 20.2 | 22.1 | 1.6 | 26.6 | 26.6 | 26.4 | 26.5 | 26.7 | 27.0 | 27.3 |
| 6400.00 | 22.7 | -30.5 | -10.2 | -10.7 | 1.4 | 0.8 | 20.5 | 22.2 | 1.6 | 26.4 | 26.2 | 26.2 | 26.4 | 26.7 | 27.0 | 27.4 |
| 6500.00 | 22.7 | -30.5 | -10.5 | -11.1 | 1.4 | 0.8 | 20.4 | 22.1 | 1.6 | 25.8 | 26.0 | 26.3 | 26.5 | 26.7 | 27.0 | 27.5 |
| 6600.00 | 22.8 | -30.8 | -10.2 | -11.0 | 1.4 | 0.8 | 20.4 | 21.8 | 1.6 | 26.3 | 26.8 | 26.4 | 26.5 | 26.8 | 27.1 | 27.5 |
| 6700.00 | 22.8 | -30.8 | -10.6 | -11.5 | 1.4 | 0.8 | 20.1 | 21.5 | 1.7 | 26.0 | 25.7 | 26.2 | 26.3 | 26.6 | 27.1 | 27.6 |
| 6800.00 | 22.9 | -31.1 | -10.4 | -11.4 | 1.4 | 0.8 | 20.3 | 21.7 | 1.7 | 26.4 | 26.3 | 26.5 | 26.7 | 27.0 | 27.4 | 27.9 |
| 6900.00 | 22.8 | -31.2 | -10.8 | -11.9 | 1.5 | 0.8 | 20.6 | 22.0 | 1.7 | 26.5 | 26.2 | 26.5 | 26.7 | 27.0 | 27.5 | 28.0 |
| 7000.00 | 22.9 | -31.5 | -10.5 | -11.9 | 1.5 | 0.9 | 20.7 | 21.9 | 1.7 | 26.0 | 25.9 | 26.1 | 26.2 | 26.7 | 27.1 | 27.7 |
| 7100.00 | 22.9 | -31.5 | -11.0 | -12.5 | 1.5 | 0.9 | 20.6 | 21.9 | 1.7 | 26.3 | 26.2 | 26.3 | 26.6 | 26.9 | 27.3 | 27.9 |
| 7200.00 | 22.9 | -32.0 | -10.8 | -12.5 | 1.6 | 0.9 | 20.8 | 21.9 | 1.8 | 25.8 | 26.1 | 26.2 | 26.5 | 26.7 | 27.2 | 27.8 |
| 7300.00 | 22.8 | -32.1 | -11.4 | -13.3 | 1.6 | 0.9 | 20.8 | 21.9 | 1.8 | 25.6 | 25.9 | 25.7 | 25.9 | 26.3 | 26.8 | 27.5 |
| 7400.00 | 22.8 | -32.7 | -11.0 | -13.4 | 1.7 | 0.9 | 20.8 | 21.8 | 1.9 | 25.8 | 25.6 | 25.7 | 26.0 | 26.4 | 26.9 | 27.6 |
| 7500.00 | 22.7 | -32.9 | -11.5 | -14.6 | 1.8 | 0.9 | 20.2 | 21.5 | 2.0 | 25.3 | 25.6 | 25.7 | 26.0 | 26.4 | 27.0 | 27.7 |
| 7600.00 | 22.6 | -33.7 | -10.8 | -14.7 | 1.9 | 1.0 | 20.6 | 21.6 | 2.0 | 25.9 | 25.8 | 25.8 | 26.0 | 26.4 | 26.9 | 27.6 |
| 7700.00 | 22.4 | -33.9 | -11.1 | -16.4 | 2.0 | 1.0 | 20.6 | 21.4 | 2.1 | 24.3 | 24.3 | 24.6 | 24.9 | 25.3 | 25.8 | 26.6 |
| 7800.00 | 22.2 | -34.9 | -10.0 | -16.4 | 2.2 | 1.0 | 20.2 | 21.1 | 2.2 | 24.6 | 25.5 | 25.3 | 25.5 | 25.9 | 26.5 | 27.3 |
| 7900.00 | 21.8 | -35.2 | -10.0 | -18.5 | 2.4 | 1.0 | 20.0 | 20.9 | 2.3 | 24.8 | 24.8 | 25.2 | 25.5 | 25.9 | 26.5 | 27.2 |
| 8000.00 | 21.4 | -36.7 | -8.6 | -17.5 | 2.8 | 1.1 | 19.3 | 20.3 | 2.4 | 24.3 | 24.4 | 24.6 | 25.0 | 25.4 | 26.2 | 27.2 |
| 8100.00 | 20.9 | -37.1 | -8.3 | -18.4 | 3.0 | 1.1 | 19.6 | 20.3 | 2.5 | 24.1 | 24.5 | 24.7 | 25.0 | 25.4 | 26.0 | 27.0 |
| 8200.00 | 20.2 | -39.2 | -6.8 | -15.5 | 3.8 | 1.2 | 19.5 | 20.1 | 2.7 | 23.4 | | 23.9 | 24.1 | 24.8 | 25.6 | 26.8 |
| 8300.00 | 19.6 | -39.0 | -6.5 | -14.7 | 3.8 | 1.2 | 19.4 | 20.0 | 2.8 | 23.8 | 24.0 | 24.1 | 24.4 | 25.0 | 25.8 | 27.1 |
| 8400.00 | 18.4 | -41.9 | -5.3 | -11.8 | 5.2 | 1.2 | 19.1 | 19.5 | 3.0 | 24.1 | 23.9 | 24.1 | 24.4 | 25.1 | 26.0 | 27.3 |
| 8500.00 | 17.8 | -42.0 | -4.8 | -10.8 | 5.3 | 1.2 | 18.5 | 18.9 | 3.2 | 22.8 | 22.5 | 23.0 | 23.5 | 24.2 | 25.4 | 27.1 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 38.4 | 38.4 | 38.2 | 38.0 | 37.9 | 37.7 | 37.6 |
| 6000.0 | 34.7 | 34.6 | 34.4 | 34.2 | 34.0 | 33.7 | 33.6 |
| 7000.0 | 44.2 | 44.1 | 43.9 | 43.7 | 43.4 | 43.3 | 43.3 |
| 8000.0 | 52.3 | 52.2 | 52.0 | 51.8 | 51.5 | 51.4 | 51.4 |
| 8500.0 | 60.6 | 60.4 | 60.2 | 60.0 | 59.8 | 59.7 | 60.0 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.8 | -4.0 | -8.9 | 1.1 | 0.9 | 3.4 |
| 300.00 | -2.4 | -2.4 | -6.6 | -11.7 | 1.0 | 0.7 | 2.0 |
| 400.00 | -1.7 | -1.8 | -9.2 | -13.8 | 1.0 | 0.6 | 1.6 |
| 500.00 | -1.4 | -1.5 | -11.9 | -15.6 | 1.0 | 0.5 | 1.4 |
| 600.00 | -1.3 | -1.3 | -14.9 | -16.9 | 1.0 | 0.5 | 1.3 |
| 700.00 | -1.2 | -1.3 | -18.1 | -17.9 | 1.0 | 0.4 | 1.4 |
| 800.00 | -1.2 | -1.2 | -22.0 | -18.1 | 1.0 | 0.4 | 1.3 |
| 900.00 | -1.1 | -1.2 | -27.3 | -17.9 | 1.0 | 0.4 | 1.1 |
| 1000.00 | -1.1 | -1.2 | -31.5 | -17.5 | 1.0 | 0.4 | 0.9 |
| 1100.00 | -1.1 | -1.2 | -27.1 | -17.2 | 1.0 | 0.4 | 1.1 |
| 1200.00 | -1.1 | -1.2 | -23.2 | -16.9 | 1.0 | 0.4 | 1.3 |
| 1300.00 | -1.1 | -1.3 | -20.7 | -16.4 | 1.0 | 0.4 | 1.2 |
| 1400.00 | -1.2 | -1.3 | -18.8 | -15.9 | 1.0 | 0.4 | 0.9 |
| 1500.00 | -1.2 | -1.3 | -17.4 | -15.6 | 1.0 | 0.4 | 1.3 |
| 1600.00 | -1.3 | -1.4 | -16.3 | -15.4 | 1.0 | 0.5 | 1.4 |
| 1700.00 | -1.3 | -1.4 | -15.5 | -15.4 | 1.0 | 0.5 | 1.3 |
| 1800.00 | -1.3 | -1.5 | -14.8 | -15.3 | 1.0 | 0.5 | 1.5 |
| 1900.00 | -1.3 | -1.5 | -14.3 | -15.2 | 1.0 | 0.5 | 1.5 |
| 2000.00 | -1.4 | -1.6 | -13.9 | -15.1 | 1.0 | 0.5 | 1.7 |
| 2100.00 | -1.4 | -1.6 | -13.7 | -15.3 | 1.0 | 0.5 | 1.3 |
| 2200.00 | -1.4 | -1.6 | -13.4 | -15.5 | 1.0 | 0.5 | 1.4 |
| 2300.00 | -1.5 | -1.7 | -13.3 | -15.8 | 1.0 | 0.5 | 1.7 |
| 2400.00 | -1.5 | -1.7 | -13.2 | -16.1 | 1.0 | 0.6 | 1.8 |
| 2500.00 | -1.5 | -1.8 | -13.2 | -16.6 | 1.0 | 0.6 | 1.8 |
| 2600.00 | -1.5 | -1.8 | -13.3 | -17.3 | 1.1 | 0.6 | 1.9 |
| 2700.00 | -1.5 | -1.9 | -13.4 | -18.1 | 1.1 | 0.6 | 1.7 |
| 2800.00 | -1.6 | -2.0 | -13.5 | -18.9 | 1.1 | 0.6 | 2.1 |
| 2900.00 | -1.6 | -2.0 | -13.7 | -19.7 | 1.1 | 0.6 | 2.1 |
| 3000.00 | -1.6 | -2.0 | -13.8 | -20.9 | 1.1 | 0.6 | 1.8 |
| 3100.00 | -1.6 | -2.0 | -13.9 | -22.4 | 1.1 | 0.6 | 1.8 |
| 3200.00 | -1.6 | -2.0 | -14.0 | -24.2 | 1.1 | 0.6 | 2.1 |
| 3300.00 | -1.6 | -2.0 | -14.1 | -26.1 | 1.1 | 0.6 | 2.1 |
| 3400.00 | -1.6 | -2.0 | -14.1 | -28.0 | 1.1 | 0.6 | 2.0 |
| 3500.00 | -1.7 | -2.0 | -14.1 | -29.1 | 1.1 | 0.6 | 2.3 |
| 3600.00 | -1.7 | -2.0 | -14.0 | -27.0 | 1.1 | 0.6 | 1.6 |
| 3700.00 | -1.7 | -2.0 | -14.0 | -24.5 | 1.1 | 0.6 | 1.8 |
| 3800.00 | -1.7 | -2.0 | -13.8 | -22.3 | 1.1 | 0.6 | 2.1 |
| 3900.00 | -1.7 | -2.0 | -13.5 | -20.7 | 1.1 | 0.6 | 1.8 |
| 4000.00 | -1.7 | -2.0 | -13.3 | -19.1 | 1.1 | 0.6 | 1.9 |
| 4100.00 | -1.8 | -2.1 | -13.0 | -17.7 | 1.1 | 0.6 | 2.1 |
| 4200.00 | -1.8 | -2.1 | -12.7 | -16.6 | 1.1 | 0.6 | 2.2 |
| 4300.00 | -1.8 | -2.1 | -12.5 | -15.7 | 1.1 | 0.6 | 2.0 |
| 4400.00 | -1.8 | -2.1 | -12.2 | -15.0 | 1.1 | 0.6 | 2.0 |
| 4500.00 | -1.8 | -2.2 | -11.9 | -14.2 | 1.1 | 0.6 | 2.0 |
| 4600.00 | -1.9 | -2.2 | -11.7 | -13.6 | 1.1 | 0.6 | 1.8 |
| 4700.00 | -1.9 | -2.2 | -11.5 | -13.1 | 1.1 | 0.6 | 2.1 |
| 4800.00 | -1.9 | -2.3 | -11.4 | -12.8 | 1.1 | 0.6 | 2.0 |
| 4900.00 | -1.9 | -2.3 | -11.2 | -12.5 | 1.1 | 0.6 | 2.0 |
| 5000.00 | -1.9 | -2.3 | -11.1 | -12.1 | 1.1 | 0.6 | 2.4 |
| 5100.00 | -1.9 | -2.3 | -11.0 | -11.9 | 1.1 | 0.6 | 1.9 |
| 5200.00 | -1.9 | -2.4 | -10.9 | -11.7 | 1.1 | 0.6 | 2.9 |
| 5300.00 | -1.9 | -2.4 | -10.9 | -11.6 | 1.1 | 0.6 | 1.7 |
| 5400.00 | -1.9 | -2.4 | -10.9 | -11.5 | 1.1 | 0.6 | 1.8 |
| 5500.00 | -1.9 | -2.4 | -10.9 | -11.3 | 1.1 | 0.6 | 1.9 |
| 5600.00 | -1.9 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 2.6 |
| 5700.00 | -1.9 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 2.4 |
| 5800.00 | -1.8 | -2.4 | -11.3 | -11.3 | 1.1 | 0.6 | 2.3 |
| 5900.00 | -1.8 | -2.4 | -11.6 | -11.6 | 1.1 | 0.6 | 2.2 |
| 6000.00 | -1.8 | -2.4 | -11.7 | -11.5 | 1.1 | 0.6 | 2.8 |
| 6100.00 | -1.7 | -2.3 | -12.0 | -11.7 | 1.1 | 0.6 | 2.0 |
| 6200.00 | -1.7 | -2.3 | -12.4 | -12.0 | 1.1 | 0.6 | 2.3 |
| 6300.00 | -1.7 | -2.3 | -12.6 | -12.0 | 1.1 | 0.6 | 2.1 |
| 6400.00 | -1.7 | -2.3 | -13.0 | -12.3 | 1.1 | 0.6 | 1.9 |
| 6500.00 | -1.7 | -2.3 | -13.2 | -12.3 | 1.1 | 0.6 | 2.1 |
| 6600.00 | -1.6 | -2.3 | -13.4 | -12.4 | 1.1 | 0.6 | 2.1 |
| 6700.00 | -1.6 | -2.3 | -13.9 | -12.7 | 1.1 | 0.6 | 1.9 |
| 6800.00 | -1.7 | -2.3 | -14.0 | -12.8 | 1.1 | 0.6 | 2.2 |
| 6900.00 | -1.6 | -2.3 | -14.1 | -12.8 | 1.1 | 0.6 | 2.0 |
| 7000.00 | -1.7 | -2.3 | -14.2 | -12.9 | 1.1 | 0.6 | 2.2 |
| 7100.00 | -1.7 | -2.4 | -14.1 | -12.8 | 1.1 | 0.6 | 2.6 |
| 7200.00 | -1.7 | -2.4 | -14.0 | -12.8 | 1.1 | 0.6 | 2.3 |
| 7300.00 | -1.8 | -2.4 | -13.8 | -12.6 | 1.1 | 0.6 | 2.2 |
| 7400.00 | -1.8 | -2.5 | -13.3 | -12.2 | 1.1 | 0.6 | 1.7 |
| 7500.00 | -1.9 | -2.5 | -12.8 | -12.0 | 1.1 | 0.6 | 2.7 |
| 7600.00 | -2.0 | -2.7 | -12.4 | -11.7 | 1.1 | 0.6 | 2.4 |
| 7700.00 | -2.1 | -2.7 | -11.7 | -11.1 | 1.1 | 0.6 | 2.4 |
| 7800.00 | -2.2 | -2.8 | -11.2 | -10.7 | 1.1 | 0.6 | 2.9 |
| 7900.00 | -2.4 | -3.0 | -10.7 | -10.1 | 1.2 | 0.6 | 2.7 |
| 8000.00 | -2.4 | -3.0 | -9.8 | -9.5 | 1.1 | 0.6 | 2.5 |

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 37.9 | 36.6 | 33.9 | 29.9 | 25.0 | 18.5 | 16.4 |
| 1000.0 | 41.5 | 39.8 | 36.5 | 31.9 | 25.6 | 17.2 | 15.4 |
| 2000.0 | 41.7 | 41.9 | 40.4 | 37.2 | 32.5 | 25.4 | 18.1 |
| 4000.0 | 42.2 | 43.4 | 42.9 | 41.6 | 39.0 | 34.7 | 28.4 |
| 6000.0 | 41.4 | 42.2 | 42.7 | 41.3 | 38.0 | 32.5 | 23.6 |
| 8000.0 | 40.5 | 41.7 | 42.6 | 41.9 | 38.8 | 33.5 | 24.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.9 | 70.7 | 70.2 | 69.3 | 66.2 | 56.5 | 46.5 |
| 1000.0 | 70.9 | 71.0 | 71.2 | 71.1 | 68.0 | 53.5 | 61.5 |
| 2000.0 | 70.1 | 70.0 | 70.0 | 70.2 | 69.6 | 65.9 | 54.8 |
| 4000.0 | 74.4 | 74.4 | 74.3 | 74.4 | 74.7 | 75.1 | 74.6 |
| 6000.0 | 74.2 | 74.0 | 73.7 | 73.4 | 73.0 | 72.1 | 65.9 |
| 8000.0 | 84.4 | 84.3 | 84.2 | 84.2 | 84.0 | 83.2 | 79.4 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 13.9 | 10.9 |
| 1000.0 | 12.9 | 10.6 |
| 2000.0 | 14.9 | 12.1 |
| 4000.0 | 17.3 | 13.5 |
| 6000.0 | 17.8 | 14.3 |
| 8000.0 | 18.0 | 13.1 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.3 | -20.1 | -17.8 | 1.1 | 0.7 | 2.3 |
| 5600.00 | -1.6 | -2.3 | -20.6 | -17.7 | 1.1 | 0.7 | 2.1 |
| 5700.00 | -1.6 | -2.3 | -20.5 | -17.5 | 1.1 | 0.7 | 2.1 |
| 5800.00 | -1.6 | -2.3 | -19.9 | -16.8 | 1.1 | 0.7 | 2.1 |
| 5900.00 | -1.6 | -2.3 | -19.0 | -16.2 | 1.1 | 0.7 | 2.2 |
| 6000.00 | -1.6 | -2.3 | -18.2 | -15.5 | 1.1 | 0.7 | 2.2 |
| 6100.00 | -1.6 | -2.4 | -17.1 | -14.8 | 1.1 | 0.6 | 2.2 |
| 6200.00 | -1.7 | -2.4 | -16.3 | -14.2 | 1.1 | 0.6 | 2.4 |
| 6300.00 | -1.7 | -2.4 | -15.2 | -13.4 | 1.1 | 0.6 | 2.5 |
| 6400.00 | -1.7 | -2.5 | -14.5 | -12.9 | 1.1 | 0.6 | 1.9 |
| 6500.00 | -1.8 | -2.5 | -13.6 | -12.2 | 1.1 | 0.6 | 2.5 |
| 6600.00 | -1.8 | -2.6 | -13.0 | -11.7 | 1.1 | 0.6 | 1.9 |
| 6700.00 | -1.9 | -2.6 | -12.1 | -11.1 | 1.1 | 0.6 | 2.6 |
| 6800.00 | -1.9 | -2.7 | -11.5 | -10.6 | 1.1 | 0.6 | 2.3 |
| 6900.00 | -2.0 | -2.8 | -10.8 | -10.0 | 1.1 | 0.6 | 2.5 |
| 7000.00 | -2.1 | -2.9 | -10.2 | -9.6 | 1.1 | 0.6 | 2.5 |
| 7100.00 | -2.2 | -3.0 | -9.6 | -9.1 | 1.1 | 0.6 | 2.2 |
| 7200.00 | -2.3 | -3.1 | -9.1 | -8.7 | 1.1 | 0.6 | 2.4 |
| 7300.00 | -2.5 | -3.2 | -8.5 | -8.2 | 1.1 | 0.6 | 2.3 |
| 7400.00 | -2.6 | -3.4 | -8.0 | -7.8 | 1.1 | 0.6 | 2.9 |
| 7500.00 | -2.7 | -3.5 | -7.5 | -7.3 | 1.1 | 0.6 | 2.6 |
| 7600.00 | -2.9 | -3.7 | -7.1 | -7.0 | 1.1 | 0.6 | 2.5 |
| 7700.00 | -3.1 | -3.8 | -6.6 | -6.5 | 1.1 | 0.6 | 2.5 |
| 7800.00 | -3.3 | -4.0 | -6.2 | -6.2 | 1.1 | 0.6 | 3.0 |
| 7900.00 | -3.5 | -4.2 | -5.8 | -5.8 | 1.2 | 0.6 | 2.9 |
| 8000.00 | -3.6 | -4.4 | -5.5 | -5.6 | 1.2 | 0.6 | 3.2 |
| 8100.00 | -3.8 | -4.6 | -5.1 | -5.2 | 1.2 | 0.6 | 3.1 |
| 8200.00 | -4.1 | -4.8 | -4.9 | -5.0 | 1.2 | 0.6 | 2.9 |
| 8300.00 | -4.3 | -5.0 | -4.5 | -4.7 | 1.2 | 0.6 | 3.3 |
| 8400.00 | -4.5 | -5.2 | -4.3 | -4.6 | 1.2 | 0.6 | 3.5 |
| 8500.00 | -4.6 | -5.3 | -4.0 | -4.2 | 1.2 | 0.6 | 3.4 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 16.8 | 13.6 |
| 6000.0 | 18.7 | 14.5 |
| 7000.0 | 20.0 | 15.6 |
| 8000.0 | 19.7 | 13.7 |
| 8500.0 | 18.9 | 12.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.5 | 70.4 | 70.2 | 70.0 | 69.7 | 68.6 | 64.4 | 41.5 | 41.8 | 41.9 | 41.2 | 40.1 | 36.5 | 30.6 |
| 6000.0 | 76.8 | 76.8 | 76.6 | 76.5 | 76.2 | 75.9 | 74.3 | 40.3 | 41.6 | 41.4 | 41.1 | 39.3 | 34.8 | 26.6 |
| 7000.0 | 88.7 | 88.7 | 88.5 | 88.3 | 88.0 | 87.4 | 85.9 | 40.6 | 40.1 | 40.7 | 41.3 | 38.7 | 34.4 | 28.3 |
| 8000.0 | 84.4 | 84.4 | 84.4 | 84.3 | 84.1 | 83.7 | 82.2 | 40.5 | 41.2 | 41.5 | 40.6 | 39.8 | 37.6 | 32.3 |
| 8500.0 | 91.7 | 91.6 | 91.5 | 91.4 | 91.3 | 92.9 | 93.0 | 42.2 | 43.3 | 43.2 | 40.6 | 35.4 | 27.6 | 17.7 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 104 mA, $I_{EN}$ = 2.60 mA @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.5 | -33.7 | -1.9 | -4.5 | 1.4 | 0.9 | 21.7 | 22.9 | 4.7 | 36.1 | 33.8 | 35.2 | 34.4 | 35.3 | 35.2 | 34.9 |
| 300.00 | 20.3 | -28.7 | -5.9 | -8.6 | 1.2 | 0.8 | 22.0 | 23.1 | 2.5 | 30.5 | 34.0 | 34.6 | 35.6 | 35.4 | 35.3 | 35.1 |
| 400.00 | 21.8 | -27.2 | -12.5 | -14.4 | 1.2 | 0.7 | 22.4 | 23.4 | 1.9 | 31.7 | 36.4 | 34.9 | 36.6 | 37.4 | 36.6 | 36.4 |
| 500.00 | 22.1 | -26.9 | -17.7 | -16.1 | 1.1 | 0.6 | 22.7 | 23.4 | 1.6 | 31.3 | 35.6 | 36.5 | 36.9 | 36.8 | 37.3 | 36.9 |
| 600.00 | 22.2 | -26.9 | -17.0 | -15.1 | 1.1 | 0.6 | 22.8 | 23.5 | 1.5 | 36.0 | 34.9 | 37.3 | 37.3 | 37.7 | 37.6 | 37.7 |
| 700.00 | 22.1 | -26.9 | -15.3 | -14.2 | 1.1 | 0.6 | 23.0 | 23.7 | 1.4 | 32.8 | 35.1 | 35.6 | 37.2 | 37.1 | 36.7 | 36.7 |
| 800.00 | 22.1 | -27.0 | -14.4 | -13.8 | 1.1 | 0.6 | 23.1 | 23.8 | 1.5 | 33.3 | 36.9 | 37.8 | 37.6 | 37.7 | 37.6 | 37.5 |
| 900.00 | 22.1 | -27.0 | -14.0 | -13.7 | 1.1 | 0.6 | 23.2 | 23.9 | 1.5 | 35.2 | 36.7 | 36.1 | 37.1 | 37.2 | 37.4 | 37.2 |
| 1000.00 | 22.1 | -27.0 | -13.8 | -13.9 | 1.1 | 0.6 | 23.2 | 23.9 | 1.5 | 34.3 | 36.7 | 36.5 | 37.2 | 37.0 | 37.1 | 37.2 |
| 1100.00 | 22.1 | -27.1 | -13.9 | -14.2 | 1.1 | 0.6 | 23.1 | 23.9 | 1.4 | 36.9 | 36.8 | 36.2 | 37.0 | 37.1 | 37.0 | 37.0 |
| 1200.00 | 22.2 | -27.1 | -14.0 | -14.7 | 1.1 | 0.7 | 23.2 | 24.0 | 1.5 | 38.2 | 37.0 | 35.8 | 36.0 | 36.4 | 36.5 | 36.5 |
| 1300.00 | 22.2 | -27.2 | -14.3 | -15.2 | 1.1 | 0.7 | 23.2 | 24.0 | 1.4 | 33.4 | 35.2 | 35.7 | 35.6 | 36.2 | 36.0 | 36.1 |
| 1400.00 | 22.2 | -27.1 | -14.7 | -16.0 | 1.1 | 0.7 | 23.1 | 23.9 | 1.4 | 35.6 | 34.0 | 36.0 | 35.2 | 35.7 | 36.3 | 36.2 |
| 1500.00 | 22.2 | -27.2 | -15.1 | -17.0 | 1.2 | 0.7 | 23.1 | 24.1 | 1.5 | 31.5 | 35.0 | 35.4 | 35.5 | 35.3 | 35.3 | 35.3 |
| 1600.00 | 22.2 | -27.2 | -15.5 | -18.2 | 1.2 | 0.7 | 23.1 | 24.1 | 1.4 | 33.2 | 33.7 | 34.8 | 34.9 | 34.9 | 35.2 | 35.2 |
| 1700.00 | 22.2 | -27.3 | -15.7 | -19.3 | 1.2 | 0.7 | 23.2 | 24.2 | 1.5 | 33.7 | 34.5 | 34.6 | 35.1 | 35.1 | 35.1 | 35.3 |
| 1800.00 | 22.3 | -27.3 | -16.0 | -21.1 | 1.2 | 0.7 | 23.0 | 24.1 | 1.5 | 33.5 | 34.1 | 35.3 | 34.5 | 34.7 | 34.9 | 35.0 |
| 1900.00 | 22.3 | -27.3 | -16.3 | -23.2 | 1.2 | 0.7 | 23.0 | 24.1 | 1.5 | 34.4 | 32.3 | 34.8 | 34.1 | 34.1 | 34.5 | 34.5 |
| 2000.00 | 22.3 | -27.3 | -16.3 | -25.8 | 1.2 | 0.7 | 22.8 | 24.0 | 1.6 | 33.2 | 33.6 | 34.2 | 33.8 | 34.6 | 34.9 | 34.9 |
| 2100.00 | 22.3 | -27.4 | -16.1 | -28.3 | 1.2 | 0.7 | 23.0 | 24.2 | 1.6 | 33.4 | 34.0 | 34.8 | 34.3 | 34.3 | 34.6 | 34.7 |
| 2200.00 | 22.3 | -27.5 | -15.8 | -29.0 | 1.2 | 0.7 | 22.9 | 24.2 | 1.6 | 34.8 | 32.7 | 34.0 | 34.0 | 34.1 | 34.6 | 34.6 |
| 2300.00 | 22.4 | -27.5 | -15.4 | -27.0 | 1.2 | 0.7 | 22.8 | 24.3 | 1.6 | 32.5 | 31.8 | 33.4 | 34.0 | 34.2 | 34.3 | 34.5 |
| 2400.00 | 22.3 | -27.6 | -14.9 | -24.7 | 1.2 | 0.7 | 22.6 | 24.4 | 1.7 | 33.7 | 32.8 | 32.4 | 32.7 | 32.7 | 32.7 | 32.7 |
| 2500.00 | 22.3 | -27.7 | -14.5 | -22.9 | 1.2 | 0.7 | 22.5 | 24.4 | 1.7 | 33.1 | 33.0 | 32.2 | 32.1 | 32.5 | 32.6 | 32.6 |
| 2600.00 | 22.3 | -27.8 | -14.1 | -21.3 | 1.2 | 0.7 | 22.3 | 24.4 | 1.7 | 32.2 | 32.1 | 31.8 | 32.6 | 32.4 | 32.7 | 32.6 |
| 2700.00 | 22.3 | -27.8 | -13.6 | -20.0 | 1.2 | 0.8 | 21.9 | 24.0 | 1.8 | 33.8 | 32.4 | 33.0 | 32.3 | 32.5 | 32.7 | 32.7 |
| 2800.00 | 22.3 | -28.0 | -13.1 | -18.8 | 1.2 | 0.8 | 21.8 | 23.8 | 1.8 | 32.8 | 31.1 | 31.6 | 31.9 | 32.0 | 32.1 | 32.1 |
| 2900.00 | 22.2 | -28.1 | -12.6 | -17.7 | 1.2 | 0.8 | 21.5 | 23.6 | 1.8 | 31.5 |  | 32.0 | 32.5 | 32.4 | 32.5 | 32.5 |
| 3000.00 | 22.2 | -28.2 | -12.2 | -16.9 | 1.2 | 0.8 | 21.7 | 23.8 | 1.8 | 30.1 | 31.0 | 30.8 | 31.2 | 31.2 | 31.1 | 31.1 |
| 3100.00 | 22.2 | -28.2 | -11.8 | -16.3 | 1.2 | 0.8 | 21.6 | 23.9 | 1.8 | 31.3 | 30.5 | 30.4 | 31.0 | 31.0 | 31.1 | 31.0 |
| 3200.00 | 22.2 | -28.2 | -11.4 | -15.8 | 1.2 | 0.8 | 21.6 | 24.0 | 1.8 | 31.8 | 31.5 | 31.0 | 31.3 | 31.6 | 31.6 | 31.6 |
| 3300.00 | 22.2 | -28.3 | -11.2 | -15.6 | 1.2 | 0.8 | 21.6 | 23.9 | 1.7 | 29.5 | 31.3 | 30.8 | 31.1 | 31.1 | 31.1 | 31.1 |
| 3400.00 | 22.2 | -28.4 | -11.0 | -15.3 | 1.2 | 0.8 | 21.4 | 23.7 | 1.8 | 31.2 | 30.5 | 31.0 | 31.2 | 31.3 | 31.4 | 31.5 |
| 3500.00 | 22.2 | -28.3 | -11.0 | -15.3 | 1.2 | 0.8 | 21.5 | 23.8 | 1.7 | 29.5 | 31.6 | 30.6 | 30.9 | 31.0 | 30.9 | 30.9 |
| 3600.00 | 22.2 | -28.3 | -11.0 | -15.4 | 1.2 | 0.8 | 21.5 | 23.7 | 1.7 | 30.4 | 30.4 | 30.7 | 30.9 | 30.9 | 31.0 | 31.0 |
| 3700.00 | 22.3 | -28.4 | -10.9 | -15.5 | 1.2 | 0.8 | 21.6 | 23.9 | 1.8 | 29.5 | 30.8 | 31.4 | 31.4 | 31.6 | 31.8 | 32.0 |
| 3800.00 | 22.3 | -28.4 | -11.0 | -15.8 | 1.2 | 0.8 | 21.8 | 24.0 | 1.7 | 30.9 | 30.2 | 30.7 | 30.8 | 31.2 | 31.3 | 31.5 |
| 3900.00 | 22.3 | -28.5 | -11.1 | -16.1 | 1.2 | 0.8 | 22.0 | 24.1 | 1.7 | 30.6 | 31.0 | 30.3 | 30.7 | 31.0 | 31.1 | 31.3 |
| 4000.00 | 22.4 | -28.5 | -11.2 | -16.5 | 1.2 | 0.8 | 22.2 | 24.2 | 1.7 | 30.3 | 30.8 | 30.7 | 31.0 | 31.0 | 31.2 | 31.4 |
| 4100.00 | 22.4 | -28.6 | -11.6 | -17.1 | 1.2 | 0.8 | 22.3 | 24.3 | 1.7 | 29.0 | 29.7 | 30.1 | 30.3 | 30.5 | 30.7 | 30.9 |
| 4200.00 | 22.4 | -28.6 | -11.8 | -17.8 | 1.2 | 0.8 | 22.3 | 24.3 | 1.7 | 28.9 | 30.2 | 30.0 | 30.3 | 30.4 | 30.8 | 31.0 |
| 4300.00 | 22.5 | -28.6 | -12.0 | -18.3 | 1.2 | 0.8 | 22.3 | 24.2 | 1.7 | 29.1 | 30.3 | 30.4 | 30.5 | 30.6 | 30.9 | 31.1 |
| 4400.00 | 22.5 | -28.5 | -12.6 | -19.2 | 1.2 | 0.8 | 22.3 | 24.3 | 1.7 | 29.1 | 29.9 | 30.0 | 30.3 | 30.5 | 30.8 | 31.0 |
| 4500.00 | 22.6 | -28.6 | -12.9 | -20.2 | 1.2 | 0.8 | 22.1 | 24.2 | 1.7 | 29.7 | 29.3 | 30.1 | 30.1 | 30.4 | 30.6 | 30.8 |
| 4600.00 | 22.6 | -28.7 | -13.5 | -21.2 | 1.3 | 0.8 | 21.9 | 24.1 | 1.7 | 29.7 | 29.8 | 29.7 | 29.8 | 30.1 | 30.3 | 30.4 |
| 4700.00 | 22.7 | -28.6 | -14.1 | -22.8 | 1.2 | 0.8 | 21.9 | 24.1 | 1.7 | 29.0 | 29.2 | 29.8 | 29.9 | 30.1 | 30.2 | 30.5 |
| 4800.00 | 22.7 | -28.8 | -14.6 | -23.3 | 1.3 | 0.8 | 21.9 | 24.0 | 1.7 | 29.8 | 28.9 | 29.8 | 30.0 | 30.2 | 30.5 | 30.8 |
| 4900.00 | 22.7 | -28.9 | -15.6 | -24.6 | 1.3 | 0.8 | 21.6 | 23.9 | 1.7 | 28.3 | 29.2 | 29.2 | 29.3 | 29.4 | 29.7 | 29.8 |
| 5000.00 | 22.8 | -28.9 | -16.2 | -26.9 | 1.3 | 0.8 | 21.7 | 23.8 | 1.7 | 29.6 | 29.0 | 28.7 | 29.0 | 29.2 | 29.4 | 29.5 |
| 5100.00 | 22.9 | -28.9 | -16.9 | -27.4 | 1.3 | 0.8 | 22.0 | 23.8 | 1.7 | 27.7 | 28.2 | 28.4 | 28.7 | 29.1 | 29.4 | 29.7 |
| 5200.00 | 22.9 | -29.0 | -18.2 | -29.3 | 1.3 | 0.8 | 22.0 | 23.8 | 1.7 | 28.2 | 28.6 | 28.6 | 29.0 | 29.3 | 29.6 | 30.1 |
| 5300.00 | 23.0 | -29.0 | -18.3 | -29.5 | 1.3 | 0.8 | 22.0 | 23.8 | 1.7 | 28.5 | 28.7 | 28.8 | 29.2 | 29.4 | 29.8 | 30.2 |
| 5400.00 | 22.9 | -29.3 | -19.0 | -29.0 | 1.3 | 0.8 | 21.6 | 23.7 | 1.7 | 28.7 | 28.2 | 28.3 | 28.6 | 28.8 | 29.2 | 29.5 |
| 5500.00 | 23.0 | -29.2 | -19.7 | -32.2 | 1.3 | 0.8 | 21.3 | 23.5 | 1.8 | 28.7 | 28.1 | 28.1 | 28.2 | 28.5 | 28.8 | 29.0 |
| 5600.00 | 23.1 | -29.3 | -18.1 | -28.6 | 1.3 | 0.8 | 20.7 | 23.1 | 1.8 | 27.7 | 27.8 | 28.1 | 28.0 | 28.5 | 28.6 | 28.8 |
| 5700.00 | 22.9 | -29.6 | -17.9 | -26.9 | 1.3 | 0.8 | 20.4 | 22.8 | 1.8 | 26.9 | 27.7 | 28.3 | 28.0 | 28.4 | 28.6 | 28.7 |
| 5800.00 | 23.0 | -29.5 | -17.1 | -27.2 | 1.3 | 0.8 | 20.3 | 22.6 | 1.8 | 27.3 | 27.4 | 27.4 | 27.7 | 27.9 | 28.1 | 28.2 |
| 5900.00 | 23.0 | -29.7 | -14.9 | -23.2 | 1.3 | 0.8 | 20.2 | 22.3 | 1.8 | 27.0 | 27.2 | 27.4 | 27.6 | 27.8 | 27.9 | 28.1 |
| 6000.00 | 22.9 | -29.8 | -14.8 | -23.0 | 1.4 | 0.8 | 19.9 | 21.6 | 2.0 | 26.5 | 26.9 | 27.0 | 27.1 | 27.1 | 27.2 | 27.3 |
| 6100.00 | 23.0 | -29.8 | -13.1 | -20.9 | 1.3 | 0.8 | 19.9 | 21.4 | 1.8 | 26.4 | 26.9 | 26.7 | 26.9 | 27.1 | 27.3 | 27.5 |
| 6200.00 | 22.9 | -30.3 | -11.6 | -18.2 | 1.4 | 0.9 | 19.9 | 21.1 | 1.9 | 26.6 | 26.2 | 26.5 | 26.6 | 26.7 | 26.9 | 27.1 |
| 6300.00 | 22.8 | -30.2 | -11.2 | -17.8 | 1.4 | 0.9 | 19.8 | 21.0 | 1.9 | 26.0 | 26.3 | 26.4 | 26.6 | 26.8 | 27.0 | 27.4 |
| 6400.00 | 22.8 | -30.5 | -9.7 | -15.7 | 1.4 | 0.9 | 19.7 | 20.9 | 1.9 | 25.7 | 25.5 | 25.7 | 25.9 | 26.1 | 26.4 | 26.6 |
| 6500.00 | 22.6 | -31.1 | -8.9 | -14.4 | 1.4 | 0.9 | 19.9 | 20.9 | 2.0 | 25.5 | 25.8 | 25.9 | 26.0 | 26.2 | 26.4 | 26.7 |
| 6600.00 | 22.5 | -31.2 | -8.2 | -13.7 | 1.4 | 0.9 | 20.0 | 21.0 | 2.0 | 26.1 | 26.2 | 26.2 | 26.3 | 26.5 | 26.8 | 27.0 |
| 6700.00 | 22.4 | -31.6 | -7.1 | -12.1 | 1.4 | 1.0 | 19.9 | 20.7 | 2.0 | 25.2 | 25.9 | 25.8 | 25.8 | 26.0 | 26.3 | 26.5 |
| 6800.00 | 22.0 | -32.3 | -6.6 | -11.2 | 1.5 | 1.0 | 19.8 | 20.6 | 2.0 | 25.5 | 25.6 | 25.7 | 25.9 | 26.1 | 26.3 | 26.6 |
| 6900.00 | 21.8 | -32.6 | -5.9 | -10.5 | 1.5 | 1.0 | 19.7 | 20.4 | 2.1 | 25.5 | 25.3 | 25.2 | 25.4 | 25.7 | 25.9 | 26.2 |
| 7000.00 | 21.5 | -33.6 | -5.2 | -9.4 | 1.6 | 1.0 | 19.6 | 20.2 | 2.1 | 24.0 | 24.4 | 24.4 | 24.6 | 24.8 | 25.0 | 25.3 |
| 7100.00 | 21.0 | -34.4 | -5.0 | -8.9 | 1.8 | 1.0 | 19.4 | 19.8 | 2.1 | 24.6 | 24.4 | 24.7 | 24.8 | 25.0 | 25.2 | 25.4 |
| 7200.00 | 20.6 | -35.2 | -4.5 | -8.2 | 1.9 | 1.0 | 19.0 | 19.4 | 2.1 | 24.8 | 24.8 | 24.9 | 25.0 | 25.2 | 25.4 | 25.7 |
| 7300.00 | 20.0 | -36.6 | -4.1 | -7.6 | 2.1 | 1.1 | 18.7 | 19.0 | 2.2 | 24.0 | 23.9 | 24.2 | 24.3 | 24.5 | 24.7 | 24.9 |
| 7400.00 | 19.4 | -37.7 | -4.1 | -7.3 | 2.5 | 1.1 | 18.2 | 18.5 | 2.2 | 23.9 | 24.2 | 24.2 | 24.3 | 24.5 | 24.7 | 24.8 |
| 7500.00 | 18.7 | -39.2 | -3.7 | -6.8 | 2.9 | 1.1 | 17.8 | 18.0 | 2.2 | 23.1 | 23.1 | 23.1 | 23.3 | 23.5 | 23.5 | 23.5 |
| 7600.00 | 17.8 | -41.3 | -3.7 | -6.5 | 3.9 | 1.1 | 17.4 | 17.6 | 2.3 | 23.6 | 23.9 | 23.9 | 24.0 | 24.1 | 24.2 | 24.0 |
| 7700.00 | 17.1 | -42.5 | -3.9 | -6.3 | 4.7 | 1.1 | 16.8 | 17.0 | 2.3 | 23.2 | 23.3 | 23.2 | 23.4 | 23.5 | 23.5 | 23.4 |
| 7800.00 | 16.3 | -46.1 | -3.6 | -5.9 | 7.2 | 1.1 | 16.0 | 16.2 | 2.4 | 22.4 | 22.4 | 22.5 | 22.6 | 22.8 | 22.7 | 22.6 |
| 7900.00 | 14.9 | -48.0 | -3.9 | -5.5 | 10.4 | 1.0 | 15.0 | 15.2 | 2.5 | 21.8 | 21.8 | 21.8 | 21.9 | 22.0 | 21.8 | 21.8 |
| 8000.00 | 13.8 | -50.7 | -3.8 | -5.3 | 15.4 | 1.0 | 13.8 | 14.0 | 2.5 | 20.2 | 20.0 | 20.1 | 20.2 | 20.0 | 19.8 | 18.9 |

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 104 mA, $I_{EN}$ = 2.60 mA @ Temperature = +25°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 46.2 | 46.1 | 46.0 | 46.0 | 45.9 | 45.7 | 45.5 |
| 1000.0 | 45.2 | 45.0 | 45.0 | 44.9 | 44.7 | 44.5 | 44.1 |
| 2000.0 | 42.5 | 42.2 | 42.2 | 42.0 | 41.8 | 41.7 | 41.5 |
| 4000.0 | 45.1 | 45.0 | 44.9 | 44.6 | 44.4 | 44.2 | 44.2 |
| 6000.0 | 34.1 | 34.0 | 33.8 | 33.5 | 33.2 | 33.1 | 32.8 |
| 8000.0 | 38.8 | 38.5 | 38.1 | 38.0 | 38.3 | 39.3 | 41.2 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 110 mA, $I_{EN}$ = 2.58 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 22.2 | -30.0 | -10.3 | -9.9 | 1.4 | 0.8 | 21.1 | 23.4 | 1.6 | 28.7 | 28.2 | 28.4 | 28.8 | 29.1 | 29.3 | 29.6 |
| 5600.00 | 22.4 | -30.1 | -10.1 | -10.0 | 1.3 | 0.8 | 20.8 | 23.2 | 1.6 | 27.4 | 27.3 | 27.4 | 27.8 | 28.0 | 28.3 | 28.4 |
| 5700.00 | 22.3 | -30.0 | -10.5 | -10.2 | 1.4 | 0.8 | 20.6 | 23.0 | 1.6 | 27.4 | 27.2 | 27.8 | 27.8 | 28.1 | 28.4 | 28.6 |
| 5800.00 | 22.5 | -30.1 | -10.2 | -10.2 | 1.3 | 0.8 | 20.4 | 23.0 | 1.6 | 27.1 | 27.5 | 27.3 | 27.8 | 27.9 | 28.2 | 28.4 |
| 5900.00 | 22.5 | -30.1 | -10.6 | -10.5 | 1.4 | 0.8 | 19.7 | 22.2 | 1.6 | 27.1 | 26.9 | 27.2 | 27.2 | 27.4 | 27.5 | 27.7 |
| 6000.00 | 22.6 | -30.2 | -10.2 | -10.4 | 1.4 | 0.8 | 19.6 | 21.7 | 1.6 | 25.6 | 25.4 | 25.8 | 26.0 | 26.1 | 26.2 | 26.3 |
| 6100.00 | 22.6 | -30.2 | -10.6 | -10.7 | 1.4 | 0.8 | 19.9 | 21.9 | 1.6 | 26.5 | 26.2 | 26.4 | 26.5 | 26.7 | 27.0 | 27.2 |
| 6200.00 | 22.7 | -30.3 | -10.2 | -10.6 | 1.4 | 0.8 | 20.1 | 21.9 | 1.6 | 25.8 | 25.2 | 25.9 | 26.1 | 26.4 | 26.6 | 26.9 |
| 6300.00 | 22.7 | -30.3 | -10.6 | -10.9 | 1.4 | 0.8 | 20.7 | 22.4 | 1.6 | 26.5 | 26.6 | 26.7 | 26.8 | 27.1 | 27.5 | 27.9 |
| 6400.00 | 22.8 | -30.6 | -10.2 | -10.7 | 1.4 | 0.8 | 20.9 | 22.5 | 1.6 | 26.1 | 26.0 | 26.6 | 26.8 | 27.0 | 27.5 | 27.9 |
| 6500.00 | 22.8 | -30.5 | -10.5 | -11.1 | 1.4 | 0.8 | 21.0 | 22.4 | 1.6 | 27.0 | 26.0 | 26.4 | 26.8 | 27.1 | 27.5 | 28.0 |
| 6600.00 | 22.9 | -30.9 | -10.2 | -11.0 | 1.4 | 0.8 | 20.9 | 22.1 | 1.6 | 26.6 | 26.5 | 26.7 | 26.8 | 27.2 | 27.6 | 28.1 |
| 6700.00 | 22.9 | -30.9 | -10.6 | -11.4 | 1.4 | 0.8 | 20.7 | 21.9 | 1.7 | 26.0 | 26.2 | 26.4 | 26.7 | 27.0 | 27.5 | 28.1 |
| 6800.00 | 23.0 | -31.2 | -10.4 | -11.3 | 1.4 | 0.8 | 20.9 | 22.0 | 1.7 | 26.3 | 26.5 | 26.6 | 27.0 | 27.3 | 27.8 | 28.3 |
| 6900.00 | 23.0 | -31.2 | -10.8 | -11.8 | 1.5 | 0.8 | 21.2 | 22.4 | 1.7 | 26.5 | 26.3 | 26.8 | 26.9 | 27.3 | 27.8 | 28.5 |
| 7000.00 | 23.0 | -31.5 | -10.5 | -11.7 | 1.5 | 0.8 | 21.2 | 22.3 | 1.8 | 26.1 | 25.8 | 26.2 | 26.5 | 26.9 | 27.4 | 28.1 |
| 7100.00 | 23.0 | -31.6 | -11.0 | -12.4 | 1.5 | 0.9 | 21.2 | 22.2 | 1.8 | 25.8 | 26.2 | 26.6 | 26.8 | 27.1 | 27.6 | 28.3 |
| 7200.00 | 23.0 | -32.0 | -10.8 | -12.4 | 1.6 | 0.9 | 21.3 | 22.2 | 1.8 | 26.8 | 26.1 | 26.3 | 26.6 | 27.0 | 27.5 | 28.2 |
| 7300.00 | 22.9 | -32.1 | -11.3 | -13.1 | 1.6 | 0.9 | 21.4 | 22.2 | 1.8 | 25.2 | 25.4 | 25.8 | 26.2 | 26.6 | 27.2 | 27.9 |
| 7400.00 | 22.9 | -32.7 | -11.0 | -13.2 | 1.7 | 0.9 | 21.2 | 22.2 | 1.9 | 25.8 | 25.5 | 26.0 | 26.2 | 26.6 | 27.2 | 27.9 |
| 7500.00 | 22.8 | -32.8 | -11.5 | -14.3 | 1.7 | 0.9 | 20.9 | 21.9 | 2.0 | 25.5 | 25.7 | 25.8 | 26.2 | 26.7 | 27.2 | 28.0 |
| 7600.00 | 22.7 | -33.6 | -10.8 | -14.4 | 1.9 | 0.9 | 21.1 | 22.0 | 2.0 | 25.5 | 25.7 | 25.8 | 26.2 | 26.6 | 27.2 | 27.9 |
| 7700.00 | 22.5 | -33.9 | -11.1 | -16.0 | 2.0 | 1.0 | 21.0 | 21.7 | 2.1 | 24.3 | 24.4 | 24.8 | 25.1 | 25.5 | 26.2 | 27.0 |
| 7800.00 | 22.3 | -34.9 | -10.0 | -16.1 | 2.2 | 1.0 | 20.7 | 21.5 | 2.2 | 25.0 | 24.6 | 25.5 | 25.7 | 26.2 | 26.8 | 27.6 |
| 7900.00 | 21.9 | -35.3 | -10.0 | -18.3 | 2.4 | 1.0 | 20.5 | 21.2 | 2.3 | 25.8 | 25.2 | 25.3 | 25.6 | 26.0 | 26.7 | 27.5 |
| 8000.00 | 21.5 | -36.7 | -8.6 | -17.4 | 2.8 | 1.1 | 20.0 | 20.7 | 2.5 | 24.5 | 24.2 | 24.6 | 25.1 | 25.6 | 26.4 | 27.5 |
| 8100.00 | 21.0 | -37.2 | -8.3 | -18.5 | 3.0 | 1.1 | 20.0 | 20.6 | 2.5 | 24.1 | 24.3 | 24.5 | 25.0 | 25.5 | 26.2 | 27.3 |
| 8200.00 | 20.2 | -39.2 | -6.8 | -15.6 | 3.7 | 1.2 | 19.9 | 20.4 | 2.7 | 23.5 | | 23.9 | 24.4 | 24.9 | 25.9 | 27.1 |
| 8300.00 | 19.7 | -39.1 | -6.4 | -14.9 | 3.8 | 1.2 | 19.6 | 20.2 | 2.8 | 24.0 | 23.8 | 24.2 | 24.6 | 25.2 | 26.1 | 27.4 |
| 8400.00 | 18.5 | -42.1 | -5.2 | -11.9 | 5.3 | 1.2 | 19.0 | 19.7 | 3.0 | 24.0 | 23.9 | 24.3 | 24.5 | 25.2 | 26.2 | 27.6 |
| 8500.00 | 17.9 | -42.1 | -4.8 | -10.9 | 5.3 | 1.2 | 18.4 | 19.1 | 3.2 | 22.7 | 22.3 | 23.1 | 23.6 | 24.5 | 25.7 | 27.6 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 38.6 | 38.5 | 38.4 | 38.3 | 38.1 | 38.0 | 37.9 |
| 6000.0 | 34.5 | 34.4 | 34.3 | 34.1 | 33.9 | 33.7 | 33.6 |
| 7000.0 | 44.1 | 43.9 | 43.8 | 43.6 | 43.5 | 43.4 | 43.4 |
| 8000.0 | 52.3 | 52.1 | 52.0 | 51.8 | 51.6 | 51.5 | 51.5 |
| 8500.0 | 60.7 | 60.5 | 60.3 | 60.1 | 60.0 | 59.9 | 60.3 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.8 | -4.0 | -8.9 | 1.1 | 0.9 | 3.5 |
| 300.00 | -2.4 | -2.4 | -6.6 | -11.7 | 1.0 | 0.7 | 2.2 |
| 400.00 | -1.7 | -1.8 | -9.2 | -13.9 | 1.0 | 0.6 | 1.6 |
| 500.00 | -1.4 | -1.5 | -11.9 | -15.6 | 1.0 | 0.5 | 1.1 |
| 600.00 | -1.3 | -1.3 | -14.8 | -16.9 | 1.0 | 0.5 | 1.4 |
| 700.00 | -1.2 | -1.3 | -18.1 | -17.8 | 1.0 | 0.4 | 1.1 |
| 800.00 | -1.2 | -1.2 | -22.0 | -18.1 | 1.0 | 0.4 | 1.4 |
| 900.00 | -1.2 | -1.2 | -27.2 | -17.8 | 1.0 | 0.4 | 1.3 |
| 1000.00 | -1.1 | -1.2 | -31.3 | -17.4 | 1.0 | 0.4 | 1.2 |
| 1100.00 | -1.1 | -1.2 | -27.0 | -17.1 | 1.0 | 0.4 | 1.4 |
| 1200.00 | -1.1 | -1.2 | -23.2 | -16.8 | 1.0 | 0.4 | 1.2 |
| 1300.00 | -1.2 | -1.3 | -20.7 | -16.4 | 1.0 | 0.4 | 1.1 |
| 1400.00 | -1.2 | -1.3 | -18.8 | -15.9 | 1.0 | 0.4 | 1.1 |
| 1500.00 | -1.2 | -1.3 | -17.4 | -15.5 | 1.0 | 0.4 | 1.5 |
| 1600.00 | -1.3 | -1.4 | -16.3 | -15.4 | 1.0 | 0.5 | 1.2 |
| 1700.00 | -1.3 | -1.4 | -15.5 | -15.4 | 1.0 | 0.5 | 1.3 |
| 1800.00 | -1.3 | -1.5 | -14.8 | -15.3 | 1.0 | 0.5 | 1.6 |
| 1900.00 | -1.4 | -1.5 | -14.3 | -15.1 | 1.0 | 0.5 | 1.5 |
| 2000.00 | -1.4 | -1.6 | -13.9 | -15.0 | 1.0 | 0.5 | 1.5 |
| 2100.00 | -1.4 | -1.6 | -13.6 | -15.3 | 1.0 | 0.5 | 1.6 |
| 2200.00 | -1.4 | -1.6 | -13.4 | -15.5 | 1.0 | 0.5 | 1.4 |
| 2300.00 | -1.5 | -1.7 | -13.3 | -15.8 | 1.0 | 0.5 | 1.5 |
| 2400.00 | -1.5 | -1.7 | -13.2 | -16.1 | 1.0 | 0.6 | 1.6 |
| 2500.00 | -1.5 | -1.8 | -13.2 | -16.6 | 1.0 | 0.6 | 1.6 |
| 2600.00 | -1.5 | -1.8 | -13.2 | -17.3 | 1.1 | 0.6 | 1.6 |
| 2700.00 | -1.6 | -1.9 | -13.4 | -18.1 | 1.1 | 0.6 | 2.0 |
| 2800.00 | -1.6 | -2.0 | -13.5 | -18.9 | 1.1 | 0.6 | 2.0 |
| 2900.00 | -1.6 | -2.0 | -13.7 | -19.7 | 1.1 | 0.6 | 2.1 |
| 3000.00 | -1.6 | -2.0 | -13.8 | -20.8 | 1.1 | 0.6 | 1.9 |
| 3100.00 | -1.6 | -2.0 | -13.9 | -22.4 | 1.1 | 0.6 | 1.9 |
| 3200.00 | -1.6 | -2.0 | -14.0 | -24.2 | 1.1 | 0.6 | 2.2 |
| 3300.00 | -1.6 | -2.0 | -14.0 | -25.9 | 1.1 | 0.6 | 2.0 |
| 3400.00 | -1.7 | -2.0 | -14.1 | -27.8 | 1.1 | 0.6 | 2.3 |
| 3500.00 | -1.7 | -2.0 | -14.1 | -28.8 | 1.1 | 0.6 | 2.1 |
| 3600.00 | -1.7 | -2.0 | -14.0 | -26.8 | 1.1 | 0.6 | 2.2 |
| 3700.00 | -1.7 | -2.0 | -13.9 | -24.4 | 1.1 | 0.6 | 2.3 |
| 3800.00 | -1.7 | -2.0 | -13.7 | -22.3 | 1.1 | 0.6 | 2.2 |
| 3900.00 | -1.7 | -2.0 | -13.5 | -20.7 | 1.1 | 0.6 | 2.0 |
| 4000.00 | -1.7 | -2.0 | -13.3 | -19.1 | 1.1 | 0.6 | 2.1 |
| 4100.00 | -1.8 | -2.1 | -13.0 | -17.6 | 1.1 | 0.6 | 2.0 |
| 4200.00 | -1.8 | -2.1 | -12.7 | -16.6 | 1.1 | 0.6 | 2.1 |
| 4300.00 | -1.8 | -2.1 | -12.5 | -15.7 | 1.1 | 0.6 | 2.1 |
| 4400.00 | -1.8 | -2.1 | -12.2 | -15.0 | 1.1 | 0.6 | 2.1 |
| 4500.00 | -1.8 | -2.2 | -11.9 | -14.2 | 1.1 | 0.6 | 1.7 |
| 4600.00 | -1.9 | -2.2 | -11.7 | -13.6 | 1.1 | 0.6 | 2.0 |
| 4700.00 | -1.9 | -2.2 | -11.5 | -13.1 | 1.1 | 0.6 | 2.0 |
| 4800.00 | -1.9 | -2.3 | -11.4 | -12.8 | 1.1 | 0.6 | 2.2 |
| 4900.00 | -1.9 | -2.3 | -11.2 | -12.5 | 1.1 | 0.6 | 2.2 |
| 5000.00 | -1.9 | -2.3 | -11.1 | -12.1 | 1.1 | 0.6 | 2.1 |
| 5100.00 | -1.9 | -2.4 | -11.0 | -11.9 | 1.1 | 0.6 | 1.6 |
| 5200.00 | -1.9 | -2.4 | -10.9 | -11.7 | 1.1 | 0.6 | 1.3 |
| 5300.00 | -1.9 | -2.4 | -10.9 | -11.6 | 1.1 | 0.6 | 2.4 |
| 5400.00 | -1.9 | -2.4 | -10.9 | -11.5 | 1.1 | 0.6 | 1.7 |
| 5500.00 | -1.9 | -2.4 | -10.9 | -11.3 | 1.1 | 0.6 | 2.3 |
| 5600.00 | -1.9 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 2.4 |
| 5700.00 | -1.9 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 2.3 |
| 5800.00 | -1.8 | -2.4 | -11.3 | -11.3 | 1.1 | 0.6 | 2.3 |
| 5900.00 | -1.8 | -2.4 | -11.6 | -11.6 | 1.1 | 0.6 | 2.3 |
| 6000.00 | -1.8 | -2.4 | -11.7 | -11.5 | 1.1 | 0.6 | 2.6 |
| 6100.00 | -1.7 | -2.3 | -12.0 | -11.7 | 1.1 | 0.6 | 1.8 |
| 6200.00 | -1.7 | -2.3 | -12.4 | -11.9 | 1.1 | 0.6 | 2.3 |
| 6300.00 | -1.7 | -2.3 | -12.6 | -12.0 | 1.1 | 0.6 | 2.1 |
| 6400.00 | -1.7 | -2.3 | -13.0 | -12.3 | 1.1 | 0.6 | 2.1 |
| 6500.00 | -1.7 | -2.3 | -13.2 | -12.3 | 1.1 | 0.6 | 2.1 |
| 6600.00 | -1.7 | -2.3 | -13.4 | -12.4 | 1.1 | 0.6 | 2.0 |
| 6700.00 | -1.6 | -2.3 | -13.9 | -12.7 | 1.1 | 0.6 | 1.5 |
| 6800.00 | -1.7 | -2.3 | -14.0 | -12.8 | 1.1 | 0.6 | 1.7 |
| 6900.00 | -1.6 | -2.3 | -14.1 | -12.7 | 1.1 | 0.6 | 2.4 |
| 7000.00 | -1.7 | -2.3 | -14.2 | -12.8 | 1.1 | 0.6 | 2.1 |
| 7100.00 | -1.7 | -2.4 | -14.1 | -12.8 | 1.1 | 0.6 | 2.4 |
| 7200.00 | -1.7 | -2.4 | -14.0 | -12.7 | 1.1 | 0.6 | 2.7 |
| 7300.00 | -1.8 | -2.4 | -13.8 | -12.6 | 1.1 | 0.6 | 2.0 |
| 7400.00 | -1.8 | -2.5 | -13.3 | -12.1 | 1.1 | 0.6 | 2.2 |
| 7500.00 | -1.9 | -2.5 | -12.8 | -12.0 | 1.1 | 0.6 | 2.6 |
| 7600.00 | -2.0 | -2.7 | -12.4 | -11.7 | 1.1 | 0.6 | 1.9 |
| 7700.00 | -2.1 | -2.7 | -11.7 | -11.1 | 1.1 | 0.6 | 2.9 |
| 7800.00 | -2.2 | -2.8 | -11.2 | -10.7 | 1.1 | 0.6 | 2.0 |
| 7900.00 | -2.4 | -3.0 | -10.7 | -10.1 | 1.2 | 0.6 | 3.1 |
| 8000.00 | -2.4 | -3.0 | -9.8 | -9.5 | 1.1 | 0.6 | 2.8 |

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 37.2 | 35.8 | 33.3 | 29.5 | 24.6 | 18.2 | 16.4 |
| 1000.0 | 41.4 | 39.2 | 36.1 | 31.6 | 25.4 | 17.0 | 15.4 |
| 2000.0 | 41.5 | 41.6 | 39.8 | 36.7 | 32.1 | 25.1 | 17.9 |
| 4000.0 | 42.1 | 41.7 | 41.7 | 40.7 | 38.2 | 34.2 | 26.6 |
| 6000.0 | 42.6 | 43.1 | 42.3 | 40.2 | 36.3 | 30.5 | 21.1 |
| 8000.0 | 42.0 | 41.8 | 42.2 | 40.5 | 36.9 | 31.2 | 21.0 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.8 | 70.5 | 70.0 | 69.1 | 65.8 | 55.8 | 46.4 |
| 1000.0 | 70.9 | 71.0 | 71.1 | 70.9 | 67.6 | 53.1 | 61.3 |
| 2000.0 | 70.3 | 70.2 | 70.2 | 70.1 | 69.5 | 65.5 | 54.6 |
| 4000.0 | 74.3 | 74.2 | 74.2 | 74.3 | 74.6 | 75.1 | 74.5 |
| 6000.0 | 74.2 | 74.0 | 73.8 | 73.5 | 73.0 | 72.0 | 65.1 |
| 8000.0 | 84.2 | 84.2 | 84.2 | 84.1 | 83.9 | 83.1 | 78.5 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 13.9 | 10.8 |
| 1000.0 | 12.9 | 10.4 |
| 2000.0 | 14.9 | 12.0 |
| 4000.0 | 17.1 | 13.4 |
| 6000.0 | 17.8 | 14.1 |
| 8000.0 | 17.8 | 13.1 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.3 | -20.0 | -17.8 | 1.1 | 0.7 | 2.4 |
| 5600.00 | -1.7 | -2.3 | -20.5 | -17.7 | 1.1 | 0.7 | 2.2 |
| 5700.00 | -1.7 | -2.3 | -20.4 | -17.4 | 1.1 | 0.7 | 2.1 |
| 5800.00 | -1.6 | -2.3 | -19.9 | -16.8 | 1.1 | 0.7 | 2.2 |
| 5900.00 | -1.6 | -2.3 | -18.9 | -16.2 | 1.1 | 0.7 | 2.3 |
| 6000.00 | -1.6 | -2.3 | -18.2 | -15.5 | 1.1 | 0.7 | 2.2 |
| 6100.00 | -1.6 | -2.4 | -17.0 | -14.7 | 1.1 | 0.6 | 2.1 |
| 6200.00 | -1.7 | -2.4 | -16.2 | -14.1 | 1.1 | 0.6 | 2.5 |
| 6300.00 | -1.7 | -2.4 | -15.2 | -13.4 | 1.1 | 0.6 | 2.5 |
| 6400.00 | -1.7 | -2.5 | -14.5 | -12.8 | 1.1 | 0.6 | 2.0 |
| 6500.00 | -1.8 | -2.5 | -13.6 | -12.2 | 1.1 | 0.6 | 2.3 |
| 6600.00 | -1.8 | -2.6 | -12.9 | -11.7 | 1.1 | 0.6 | 2.0 |
| 6700.00 | -1.9 | -2.7 | -12.1 | -11.1 | 1.1 | 0.6 | 2.4 |
| 6800.00 | -1.9 | -2.7 | -11.5 | -10.6 | 1.1 | 0.6 | 2.3 |
| 6900.00 | -2.0 | -2.8 | -10.8 | -10.0 | 1.1 | 0.6 | 2.7 |
| 7000.00 | -2.1 | -2.9 | -10.2 | -9.6 | 1.1 | 0.6 | 2.6 |
| 7100.00 | -2.2 | -3.0 | -9.6 | -9.1 | 1.1 | 0.6 | 2.0 |
| 7200.00 | -2.3 | -3.1 | -9.1 | -8.7 | 1.1 | 0.6 | 2.5 |
| 7300.00 | -2.5 | -3.2 | -8.5 | -8.1 | 1.1 | 0.6 | 2.6 |
| 7400.00 | -2.6 | -3.4 | -8.0 | -7.8 | 1.1 | 0.6 | 2.4 |
| 7500.00 | -2.7 | -3.5 | -7.5 | -7.3 | 1.1 | 0.6 | 2.7 |
| 7600.00 | -2.9 | -3.7 | -7.1 | -7.0 | 1.1 | 0.6 | 2.4 |
| 7700.00 | -3.1 | -3.8 | -6.6 | -6.5 | 1.1 | 0.6 | 2.7 |
| 7800.00 | -3.3 | -4.0 | -6.2 | -6.2 | 1.1 | 0.6 | 3.2 |
| 7900.00 | -3.5 | -4.2 | -5.8 | -5.8 | 1.2 | 0.6 | 3.2 |
| 8000.00 | -3.6 | -4.4 | -5.5 | -5.6 | 1.2 | 0.6 | 3.5 |
| 8100.00 | -3.9 | -4.6 | -5.1 | -5.2 | 1.2 | 0.6 | 3.1 |
| 8200.00 | -4.1 | -4.8 | -4.9 | -5.0 | 1.2 | 0.6 | 3.2 |
| 8300.00 | -4.3 | -5.0 | -4.5 | -4.7 | 1.2 | 0.6 | 2.7 |
| 8400.00 | -4.5 | -5.2 | -4.3 | -4.6 | 1.2 | 0.6 | 2.8 |
| 8500.00 | -4.6 | -5.3 | -4.0 | -4.2 | 1.2 | 0.6 | 2.9 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 16.7 | 13.5 |
| 6000.0 | 18.6 | 14.4 |
| 7000.0 | 20.0 | 15.3 |
| 8000.0 | 19.7 | 13.6 |
| 8500.0 | 18.8 | 12.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.5 | 70.5 | 70.3 | 70.1 | 69.7 | 68.6 | 64.2 | 40.8 | 41.3 | 41.5 | 40.8 | 39.4 | 35.9 | 29.9 |
| 6000.0 | 77.4 | 77.2 | 76.9 | 76.7 | 76.3 | 75.9 | 74.2 | 40.2 | 40.7 | 41.0 | 41.5 | 39.0 | 34.3 | 25.9 |
| 7000.0 | 88.8 | 88.7 | 88.5 | 88.3 | 87.9 | 87.3 | 85.6 | 40.0 | 40.3 | 40.3 | 40.6 | 38.2 | 33.8 | 27.7 |
| 8000.0 | 84.3 | 84.3 | 84.2 | 84.2 | 84.0 | 83.6 | 81.9 | 43.3 | 42.0 | 42.5 | 40.3 | 39.5 | 37.1 | 31.7 |
| 8500.0 | 91.5 | 91.4 | 91.4 | 91.3 | 91.2 | 92.6 | 94.8 | 42.5 | 43.4 | 43.0 | 39.8 | 34.7 | 26.8 | 17.4 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 111 mA, $I_{EN}$ = 2.71 mA @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.5 | -33.8 | -1.9 | -4.4 | 1.4 | 0.9 | 22.1 | 23.2 | 4.7 | 32.5 | 34.9 | 35.5 | 35.8 | 36.4 | 35.7 | 35.6 |
| 300.00 | 20.4 | -28.8 | -6.0 | -8.6 | 1.2 | 0.8 | 22.4 | 23.4 | 2.5 | 32.2 | 33.4 | 35.2 | 36.7 | 36.2 | 36.3 | 35.8 |
| 400.00 | 21.9 | -27.3 | -12.5 | -14.3 | 1.2 | 0.7 | 22.8 | 23.7 | 1.9 | 32.5 | 34.0 | 41.1 | 37.7 | 37.7 | 37.4 | 37.3 |
| 500.00 | 22.2 | -27.0 | -17.5 | -15.9 | 1.1 | 0.6 | 23.0 | 23.8 | 1.7 | 33.3 | 35.1 | 37.0 | 37.8 | 37.5 | 37.4 | 37.6 |
| 600.00 | 22.2 | -27.0 | -16.7 | -14.8 | 1.1 | 0.6 | 23.2 | 23.8 | 1.5 | 31.9 | 38.2 | 38.0 | 37.5 | 38.1 | 38.4 | 38.2 |
| 700.00 | 22.2 | -27.1 | -15.0 | -14.0 | 1.1 | 0.6 | 23.4 | 24.0 | 1.4 | 33.5 | 36.1 | 37.1 | 37.8 | 37.3 | 37.4 | 37.4 |
| 800.00 | 22.2 | -27.0 | -14.1 | -13.6 | 1.1 | 0.6 | 23.4 | 24.1 | 1.4 | 35.9 | 37.8 | 37.7 | 38.1 | 38.0 | 38.1 | 38.2 |
| 900.00 | 22.2 | -27.1 | -13.7 | -13.5 | 1.1 | 0.6 | 23.5 | 24.2 | 1.4 | 35.2 | 35.1 | 37.2 | 37.5 | 38.0 | 37.9 | 38.0 |
| 1000.00 | 22.2 | -27.2 | -13.5 | -13.6 | 1.1 | 0.6 | 23.5 | 24.2 | 1.4 | 36.1 | 36.0 | 36.1 | 37.0 | 38.1 | 37.7 | 37.8 |
| 1100.00 | 22.2 | -27.1 | -13.6 | -13.9 | 1.1 | 0.6 | 23.4 | 24.2 | 1.4 | 36.8 | 37.6 | 36.6 | 37.4 | 37.4 | 37.5 | 37.7 |
| 1200.00 | 22.2 | -27.2 | -13.8 | -14.4 | 1.1 | 0.7 | 23.5 | 24.3 | 1.4 | 34.7 | 33.9 | 35.4 | 37.3 | 37.0 | 37.0 | 37.2 |
| 1300.00 | 22.2 | -27.2 | -14.1 | -15.0 | 1.1 | 0.7 | 23.5 | 24.4 | 1.4 | 35.4 | 34.3 | 35.7 | 36.5 | 36.4 | 36.6 | 36.8 |
| 1400.00 | 22.3 | -27.2 | -14.5 | -15.7 | 1.1 | 0.7 | 23.4 | 24.2 | 1.4 | 34.0 | 34.9 | 36.1 | 36.4 | 36.6 | 36.5 | 36.8 |
| 1500.00 | 22.3 | -27.2 | -15.0 | -16.7 | 1.1 | 0.7 | 23.4 | 24.4 | 1.4 | 34.5 | 35.0 | 35.2 | 35.7 | 36.0 | 36.1 | 36.0 |
| 1600.00 | 22.3 | -27.3 | -15.4 | -17.8 | 1.2 | 0.7 | 23.4 | 24.4 | 1.5 | 33.0 | 34.4 | 34.8 | 35.2 | 35.5 | 35.9 | 35.9 |
| 1700.00 | 22.3 | -27.3 | -15.6 | -18.8 | 1.2 | 0.7 | 23.5 | 24.5 | 1.5 | 33.8 | 35.2 | 34.8 | 35.3 | 35.6 | 35.8 | 36.0 |
| 1800.00 | 22.4 | -27.4 | -16.1 | -20.5 | 1.2 | 0.7 | 23.3 | 24.4 | 1.5 | 34.4 | 33.7 | 33.9 | 34.9 | 35.3 | 35.6 | 35.7 |
| 1900.00 | 22.4 | -27.4 | -16.4 | -22.5 | 1.2 | 0.7 | 23.3 | 24.4 | 1.5 | 32.4 | 34.8 | 34.6 | 34.4 | 34.9 | 35.1 | 35.3 |
| 2000.00 | 22.4 | -27.4 | -16.5 | -24.9 | 1.2 | 0.7 | 23.2 | 24.3 | 1.5 | 34.1 | 34.8 | 35.2 | 34.9 | 34.9 | 35.3 | 35.6 |
| 2100.00 | 22.4 | -27.5 | -16.4 | -27.3 | 1.2 | 0.7 | 23.4 | 24.5 | 1.6 | 30.8 | 32.0 | 34.6 | 34.4 | 34.9 | 35.1 | 35.2 |
| 2200.00 | 22.4 | -27.5 | -16.1 | -28.6 | 1.2 | 0.7 | 23.2 | 24.5 | 1.6 | 32.1 | 34.2 | 33.4 | 34.1 | 34.6 | 34.9 | 35.3 |
| 2300.00 | 22.4 | -27.6 | -15.8 | -27.3 | 1.2 | 0.7 | 23.2 | 24.6 | 1.6 | 32.6 | 34.6 | 33.5 | 33.9 | 34.6 | 34.8 | 35.1 |
| 2400.00 | 22.4 | -27.7 | -15.3 | -25.2 | 1.2 | 0.7 | 23.0 | 24.7 | 1.6 | 32.2 | 31.6 | 32.8 | 32.9 | 33.4 | 33.4 | 33.4 |
| 2500.00 | 22.4 | -27.7 | -14.9 | -23.4 | 1.2 | 0.7 | 22.8 | 24.7 | 1.6 | 31.2 | 33.5 | 33.1 | 32.8 | 33.1 | 33.2 | 33.3 |
| 2600.00 | 22.4 | -27.8 | -14.4 | -21.7 | 1.2 | 0.7 | 22.6 | 24.6 | 1.7 | 29.7 | 33.2 | 33.5 | 32.9 | 33.2 | 33.3 | 33.4 |
| 2700.00 | 22.4 | -27.9 | -13.9 | -20.4 | 1.2 | 0.8 | 22.2 | 24.2 | 1.8 | 33.7 | 31.6 | 33.2 | 33.2 | 32.9 | 33.3 | 33.4 |
| 2800.00 | 22.4 | -28.1 | -13.4 | -19.1 | 1.2 | 0.8 | 22.1 | 24.1 | 1.8 | 30.3 | 31.7 | 31.9 | 32.3 | 32.4 | 32.8 | 32.8 |
| 2900.00 | 22.4 | -28.1 | -12.8 | -18.0 | 1.2 | 0.8 | 21.9 | 23.9 | 1.8 | 31.3 | | 32.5 | 32.9 | 32.8 | 33.1 | 33.2 |
| 3000.00 | 22.3 | -28.2 | -12.4 | -17.1 | 1.2 | 0.8 | 22.0 | 24.0 | 1.8 | 29.5 | 30.8 | 31.5 | 31.6 | 31.6 | 31.7 | 31.8 |
| 3100.00 | 22.3 | -28.1 | -12.0 | -16.5 | 1.2 | 0.8 | 22.0 | 24.1 | 1.8 | 31.2 | 30.2 | 31.2 | 31.5 | 31.6 | 31.6 | 31.7 |
| 3200.00 | 22.3 | -28.3 | -11.6 | -16.1 | 1.2 | 0.8 | 22.0 | 24.2 | 1.8 | 32.5 | 31.2 | 31.7 | 31.8 | 31.9 | 32.1 | 32.2 |
| 3300.00 | 22.3 | -28.2 | -11.4 | -15.8 | 1.2 | 0.8 | 21.9 | 24.1 | 1.8 | 30.3 | 31.3 | 31.1 | 31.7 | 31.5 | 31.7 | 31.8 |
| 3400.00 | 22.3 | -28.3 | -11.2 | -15.6 | 1.2 | 0.8 | 21.8 | 24.0 | 1.8 | 31.5 | 30.8 | 31.1 | 31.6 | 31.8 | 32.0 | 32.1 |
| 3500.00 | 22.3 | -28.4 | -11.1 | -15.5 | 1.2 | 0.8 | 21.9 | 24.0 | 1.8 | 30.3 | 31.4 | 31.3 | 31.0 | 31.4 | 31.4 | 31.6 |
| 3600.00 | 22.3 | -28.4 | -11.1 | -15.7 | 1.2 | 0.8 | 21.8 | 23.9 | 1.7 | 30.7 | 30.3 | 31.0 | 31.2 | 31.3 | 31.5 | 31.7 |
| 3700.00 | 22.4 | -28.4 | -11.0 | -15.8 | 1.2 | 0.8 | 22.0 | 24.1 | 1.7 | 30.4 | 30.8 | 31.5 | 31.7 | 32.0 | 32.2 | 32.5 |
| 3800.00 | 22.4 | -28.4 | -11.1 | -16.0 | 1.2 | 0.8 | 22.2 | 24.2 | 1.7 | 29.8 | 30.5 | 30.8 | 31.1 | 31.5 | 31.8 | 32.1 |
| 3900.00 | 22.4 | -28.5 | -11.2 | -16.3 | 1.2 | 0.8 | 22.3 | 24.2 | 1.7 | 29.7 | 31.0 | 30.6 | 31.2 | 31.3 | 31.6 | 31.9 |
| 4000.00 | 22.5 | -28.5 | -11.4 | -16.8 | 1.2 | 0.8 | 22.5 | 24.4 | 1.7 | 31.0 | 30.0 | 30.7 | 31.2 | 31.4 | 31.6 | 32.0 |
| 4100.00 | 22.5 | -28.5 | -11.6 | -17.4 | 1.2 | 0.8 | 22.6 | 24.4 | 1.7 | 30.1 | 30.4 | 30.5 | 30.5 | 30.9 | 31.1 | 31.4 |
| 4200.00 | 22.5 | -28.6 | -11.9 | -18.2 | 1.2 | 0.8 | 22.6 | 24.4 | 1.7 | 29.4 | 30.0 | 30.6 | 30.7 | 30.9 | 31.3 | 31.6 |
| 4300.00 | 22.6 | -28.7 | -12.1 | -18.6 | 1.2 | 0.8 | 22.6 | 24.3 | 1.7 | 30.3 | 30.4 | 31.3 | 30.8 | 31.0 | 31.3 | 31.7 |
| 4400.00 | 22.6 | -28.6 | -12.7 | -19.6 | 1.2 | 0.8 | 22.6 | 24.4 | 1.7 | 29.6 | 29.9 | 30.4 | 30.7 | 30.9 | 31.2 | 31.6 |
| 4500.00 | 22.7 | -28.7 | -12.9 | -20.6 | 1.2 | 0.8 | 22.4 | 24.3 | 1.7 | 30.0 | 30.1 | 30.6 | 30.5 | 30.8 | 31.1 | 31.3 |
| 4600.00 | 22.7 | -28.8 | -13.6 | -21.7 | 1.2 | 0.8 | 22.1 | 24.1 | 1.6 | 29.5 | 29.8 | 30.4 | 30.3 | 30.5 | 30.9 | 31.1 |
| 4700.00 | 22.8 | -28.7 | -14.2 | -23.3 | 1.2 | 0.8 | 22.2 | 24.2 | 1.7 | 30.2 | 29.6 | 29.8 | 30.1 | 30.5 | 30.8 | 31.1 |
| 4800.00 | 22.8 | -28.8 | -14.6 | -23.9 | 1.2 | 0.8 | 22.2 | 24.2 | 1.6 | 29.4 | 29.4 | 30.0 | 30.2 | 30.6 | 30.9 | 31.3 |
| 4900.00 | 22.8 | -29.0 | -15.7 | -25.3 | 1.3 | 0.8 | 21.9 | 23.9 | 1.6 | 29.7 | 28.9 | 29.4 | 29.6 | 29.9 | 30.2 | 30.5 |
| 5000.00 | 22.9 | -28.9 | -16.2 | -27.7 | 1.3 | 0.8 | 21.9 | 23.8 | 1.8 | 29.3 | 29.2 | 29.1 | 29.3 | 29.5 | 29.8 | 30.1 |
| 5100.00 | 23.0 | -29.0 | -16.9 | -28.1 | 1.3 | 0.8 | 22.2 | 23.9 | 1.7 | 28.9 | 28.4 | 28.6 | 29.1 | 29.4 | 29.8 | 30.2 |
| 5200.00 | 23.0 | -29.1 | -18.3 | -30.3 | 1.3 | 0.8 | 22.3 | 23.9 | 1.7 | 28.9 | 28.3 | 29.0 | 29.2 | 29.6 | 29.9 | 30.5 |
| 5300.00 | 23.1 | -29.1 | -18.4 | -30.2 | 1.3 | 0.8 | 22.2 | 23.8 | 1.7 | 28.5 | 28.8 | 29.1 | 29.3 | 29.7 | 30.1 | 30.6 |
| 5400.00 | 23.1 | -29.3 | -19.2 | -29.8 | 1.3 | 0.8 | 21.8 | 23.7 | 1.7 | 27.4 | 28.4 | 28.5 | 28.7 | 29.2 | 29.6 | 30.0 |
| 5500.00 | 23.1 | -29.2 | -19.8 | -33.3 | 1.3 | 0.8 | 21.5 | 23.5 | 1.8 | 27.9 | 27.5 | 28.2 | 28.4 | 28.8 | 29.1 | 29.5 |
| 5600.00 | 23.2 | -29.3 | -18.3 | -28.8 | 1.3 | 0.8 | 20.8 | 23.1 | 1.8 | 27.8 | 28.2 | 28.1 | 28.5 | 28.8 | 29.1 | 29.3 |
| 5700.00 | 23.0 | -29.6 | -18.2 | -27.7 | 1.3 | 0.8 | 20.6 | 22.8 | 1.8 | 28.8 | 28.1 | 28.2 | 28.4 | 28.7 | 29.0 | 29.3 |
| 5800.00 | 23.2 | -29.4 | -17.3 | -27.4 | 1.3 | 0.8 | 20.5 | 22.5 | 1.8 | 27.2 | 27.8 | 27.6 | 27.9 | 28.2 | 28.5 | 28.8 |
| 5900.00 | 23.2 | -29.7 | -15.1 | -23.5 | 1.3 | 0.8 | 20.4 | 22.3 | 1.8 | 27.4 | 27.8 | 28.0 | 27.9 | 28.1 | 28.4 | 28.6 |
| 6000.00 | 23.0 | -29.7 | -14.9 | -23.5 | 1.3 | 0.8 | 20.1 | 21.6 | 2.0 | 27.4 | 27.0 | 27.1 | 27.2 | 27.5 | 27.7 | 27.8 |
| 6100.00 | 23.2 | -29.8 | -13.2 | -21.1 | 1.3 | 0.8 | 20.1 | 21.4 | 1.8 | 27.2 | 26.6 | 27.0 | 27.3 | 27.4 | 27.7 | 27.9 |
| 6200.00 | 23.0 | -30.3 | -11.6 | -18.4 | 1.4 | 0.9 | 20.1 | 21.2 | 1.9 | 27.2 | 26.5 | 26.7 | 26.8 | 27.0 | 27.3 | 27.6 |
| 6300.00 | 22.9 | -30.2 | -11.2 | -17.9 | 1.4 | 0.9 | 20.0 | 21.1 | 1.9 | 26.0 | 26.4 | 26.7 | 26.8 | 27.1 | 27.4 | 27.8 |
| 6400.00 | 23.0 | -30.5 | -9.7 | -15.8 | 1.4 | 0.9 | 20.0 | 21.0 | 1.9 | 25.6 | 25.7 | 25.9 | 26.1 | 26.4 | 26.7 | 27.1 |
| 6500.00 | 22.7 | -31.2 | -8.9 | -14.4 | 1.4 | 0.9 | 20.1 | 21.0 | 2.0 | 25.8 | 25.8 | 26.1 | 26.2 | 26.5 | 26.8 | 27.2 |
| 6600.00 | 22.7 | -31.1 | -8.2 | -13.7 | 1.4 | 0.9 | 20.2 | 21.0 | 2.0 | 26.3 | 26.3 | 26.5 | 26.6 | 26.8 | 27.1 | 27.5 |
| 6700.00 | 22.5 | -31.7 | -7.0 | -12.1 | 1.4 | 1.0 | 20.0 | 20.7 | 2.0 | 25.6 | 25.9 | 26.0 | 26.1 | 26.4 | 26.7 | 27.0 |
| 6800.00 | 22.1 | -32.4 | -6.6 | -11.2 | 1.5 | 1.0 | 19.9 | 20.6 | 2.0 | 25.6 | 26.0 | 25.9 | 26.2 | 26.4 | 26.7 | 27.1 |
| 6900.00 | 22.0 | -32.7 | -5.9 | -10.5 | 1.5 | 1.0 | 19.8 | 20.4 | 2.1 | 25.1 | 25.3 | 25.5 | 25.7 | 25.9 | 26.3 | 26.7 |
| 7000.00 | 21.6 | -33.6 | -5.2 | -9.4 | 1.6 | 1.0 | 19.6 | 20.1 | 2.1 | 24.5 | 24.6 | 24.7 | 24.9 | 25.1 | 25.5 | 25.9 |
| 7100.00 | 21.1 | -34.4 | -5.0 | -8.9 | 1.8 | 1.0 | 19.3 | 19.8 | 2.1 | 24.9 | 24.6 | 25.1 | 25.1 | 25.4 | 25.7 | 26.1 |
| 7200.00 | 20.7 | -35.1 | -4.4 | -8.2 | 1.8 | 1.0 | 19.0 | 19.4 | 2.1 | 24.8 | 25.1 | 25.2 | 25.3 | 25.6 | 25.9 | 26.3 |
| 7300.00 | 20.1 | -36.4 | -4.1 | -7.6 | 2.1 | 1.1 | 18.6 | 18.9 | 2.2 | 24.7 | 24.4 | 24.5 | 24.7 | 24.9 | 25.3 | 25.5 |
| 7400.00 | 19.5 | -37.9 | -4.0 | -7.3 | 2.5 | 1.1 | 18.2 | 18.5 | 2.2 | 24.5 | 24.5 | 24.5 | 24.7 | 24.9 | 25.3 | 25.6 |
| 7500.00 | 18.8 | -39.1 | -3.7 | -6.8 | 2.8 | 1.1 | 17.7 | 18.0 | 2.2 | 23.4 | 23.2 | 23.4 | 23.7 | 24.0 | 24.2 | 24.2 |
| 7600.00 | 17.8 | -41.5 | -3.7 | -6.5 | 3.9 | 1.1 | 17.3 | 17.5 | 2.3 | 24.3 | 24.4 | 24.2 | 24.3 | 24.6 | 24.8 | 24.7 |
| 7700.00 | 17.2 | -42.5 | -3.8 | -6.4 | 4.7 | 1.1 | 16.7 | 16.9 | 2.4 | 23.4 | 23.6 | 23.7 | 23.8 | 24.0 | 24.2 | 24.0 |
| 7800.00 | 16.3 | -46.6 | -3.6 | -5.9 | 7.5 | 1.1 | 15.9 | 16.1 | 2.4 | 22.5 | 22.7 | 22.8 | 23.0 | 23.3 | 23.4 | 23.1 |
| 7900.00 | 14.9 | -48.8 | -3.9 | -5.5 | 11.4 | 1.0 | 14.9 | 15.1 | 2.5 | 22.0 | 22.2 | 22.3 | 22.5 | 22.7 | 22.6 | 22.1 |
| 8000.00 | 13.9 | -50.4 | -3.8 | -5.3 | 15.0 | 1.0 | 13.7 | 13.9 | 2.5 | 20.6 | 20.7 | 20.8 | 21.0 | 20.9 | 20.4 | 19.1 |

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 111 mA, $I_{EN}$ = 2.71 mA @ Temperature = +25°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 47.5 | 47.4 | 47.4 | 47.3 | 47.2 | 47.1 | 46.8 |
| 1000.0 | 46.4 | 46.3 | 46.1 | 46.0 | 45.8 | 45.6 | 45.3 |
| 2000.0 | 43.1 | 42.9 | 42.8 | 42.7 | 42.6 | 42.5 | 42.3 |
| 4000.0 | 45.0 | 44.8 | 44.8 | 44.6 | 44.4 | 44.3 | 44.3 |
| 6000.0 | 34.0 | 33.8 | 33.7 | 33.5 | 33.2 | 33.1 | 32.9 |
| 8000.0 | 39.1 | 38.8 | 38.5 | 38.3 | 38.6 | 39.6 | 41.4 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 118 mA, $I_{EN}$ = 2.68 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 22.3 | -29.9 | -10.3 | -10.0 | 1.3 | 0.8 | 21.1 | 23.3 | 1.6 | 27.6 | 28.7 | 28.8 | 29.2 | 29.5 | 29.9 | 30.2 |
| 5600.00 | 22.5 | -30.1 | -10.1 | -10.1 | 1.3 | 0.8 | 20.9 | 23.2 | 1.6 | 28.0 | 28.2 | 27.8 | 28.1 | 28.4 | 28.8 | 29.1 |
| 5700.00 | 22.4 | -30.0 | -10.5 | -10.3 | 1.3 | 0.8 | 20.4 | 23.0 | 1.6 | 27.2 | 28.3 | 28.0 | 28.2 | 28.5 | 28.9 | 29.1 |
| 5800.00 | 22.6 | -30.1 | -10.2 | -10.3 | 1.3 | 0.8 | 20.4 | 22.9 | 1.6 | 27.2 | 28.3 | 27.7 | 28.0 | 28.3 | 28.7 | 29.0 |
| 5900.00 | 22.6 | -30.2 | -10.6 | -10.5 | 1.4 | 0.8 | 19.8 | 22.0 | 1.6 | 26.8 | 26.9 | 27.3 | 27.5 | 27.8 | 28.0 | 28.3 |
| 6000.00 | 22.7 | -30.1 | -10.2 | -10.4 | 1.3 | 0.8 | 19.8 | 21.6 | 1.6 | 26.2 | 26.1 | 26.2 | 26.3 | 26.5 | 26.8 | 26.9 |
| 6100.00 | 22.7 | -30.1 | -10.6 | -10.8 | 1.3 | 0.8 | 20.0 | 21.8 | 1.6 | 26.1 | 26.3 | 26.4 | 26.8 | 27.1 | 27.4 | 27.8 |
| 6200.00 | 22.8 | -30.3 | -10.2 | -10.6 | 1.3 | 0.8 | 20.1 | 21.7 | 1.6 | 25.9 | 26.1 | 26.2 | 26.4 | 26.7 | 27.1 | 27.5 |
| 6300.00 | 22.8 | -30.2 | -10.5 | -10.9 | 1.3 | 0.8 | 20.7 | 22.2 | 1.6 | 26.7 | 26.7 | 26.9 | 27.0 | 27.3 | 27.8 | 28.3 |
| 6400.00 | 22.9 | -30.6 | -10.1 | -10.7 | 1.4 | 0.8 | 21.0 | 22.4 | 1.6 | 26.7 | 26.7 | 26.8 | 27.0 | 27.3 | 27.8 | 28.4 |
| 6500.00 | 22.9 | -30.5 | -10.5 | -11.1 | 1.4 | 0.8 | 21.1 | 22.3 | 1.7 | 26.3 | 27.3 | 26.8 | 27.0 | 27.4 | 27.8 | 28.4 |
| 6600.00 | 23.0 | -30.8 | -10.2 | -10.9 | 1.4 | 0.8 | 20.9 | 22.1 | 1.6 | 26.1 | 26.5 | 26.6 | 27.0 | 27.4 | 27.9 | 28.5 |
| 6700.00 | 23.0 | -30.9 | -10.6 | -11.3 | 1.4 | 0.8 | 20.7 | 22.0 | 1.7 | 26.3 | 26.8 | 26.6 | 26.9 | 27.3 | 27.8 | 28.5 |
| 6800.00 | 23.1 | -31.1 | -10.3 | -11.2 | 1.4 | 0.8 | 20.9 | 22.2 | 1.7 | 26.7 | 26.7 | 26.7 | 27.0 | 27.5 | 28.1 | 28.7 |
| 6900.00 | 23.1 | -31.1 | -10.7 | -11.6 | 1.4 | 0.8 | 21.3 | 22.6 | 1.7 | 26.1 | 26.2 | 26.7 | 27.1 | 27.5 | 28.1 | 28.8 |
| 7000.00 | 23.1 | -31.4 | -10.4 | -11.6 | 1.5 | 0.8 | 21.1 | 22.4 | 1.7 | 25.5 | 26.2 | 26.4 | 26.7 | 27.1 | 27.7 | 28.5 |
| 7100.00 | 23.1 | -31.7 | -11.0 | -12.2 | 1.5 | 0.9 | 21.2 | 22.3 | 1.8 | 25.5 | 26.3 | 26.6 | 26.9 | 27.4 | 27.9 | 28.6 |
| 7200.00 | 23.1 | -32.0 | -10.7 | -12.1 | 1.5 | 0.9 | 21.3 | 22.3 | 1.8 | 26.1 | 25.9 | 26.4 | 26.6 | 27.2 | 27.8 | 28.5 |
| 7300.00 | 23.0 | -32.2 | -11.3 | -12.9 | 1.6 | 0.9 | 21.1 | 22.3 | 1.9 | 25.5 | 26.0 | 26.1 | 26.3 | 26.8 | 27.4 | 28.2 |
| 7400.00 | 23.1 | -32.7 | -10.9 | -12.9 | 1.7 | 0.9 | 21.1 | 22.2 | 1.9 | 25.4 | 25.7 | 26.0 | 26.3 | 26.8 | 27.5 | 28.3 |
| 7500.00 | 22.9 | -32.9 | -11.4 | -14.0 | 1.7 | 0.9 | 20.6 | 22.0 | 2.0 | 25.8 | 25.7 | 25.9 | 26.4 | 26.8 | 27.5 | 28.3 |
| 7600.00 | 22.8 | -33.6 | -10.7 | -14.1 | 1.9 | 0.9 | 21.0 | 22.0 | 2.0 | 25.5 | 25.8 | 26.0 | 26.3 | 26.8 | 27.4 | 28.2 |
| 7700.00 | 22.6 | -33.9 | -11.0 | -15.7 | 2.0 | 1.0 | 20.9 | 21.7 | 2.1 | 24.2 | 24.6 | 24.9 | 25.3 | 25.7 | 26.4 | 27.3 |
| 7800.00 | 22.4 | -35.0 | -9.9 | -15.8 | 2.2 | 1.0 | 20.6 | 21.5 | 2.2 | 25.0 | 25.1 | 25.5 | 25.8 | 26.3 | 27.0 | 27.9 |
| 7900.00 | 22.0 | -35.4 | -9.9 | -17.9 | 2.4 | 1.0 | 20.4 | 21.2 | 2.3 | 24.7 | 25.1 | 25.3 | 25.6 | 26.1 | 26.9 | 27.8 |
| 8000.00 | 21.6 | -36.9 | -8.5 | -17.2 | 2.8 | 1.1 | 19.7 | 20.8 | 2.4 | 23.9 | 24.1 | 24.9 | 25.2 | 25.8 | 26.6 | 27.7 |
| 8100.00 | 21.1 | -37.2 | -8.2 | -18.5 | 3.0 | 1.1 | 19.8 | 20.6 | 2.5 | 24.1 | 24.1 | 24.6 | 25.1 | 25.7 | 26.5 | 27.6 |
| 8200.00 | 20.3 | -39.6 | -6.7 | -15.7 | 3.8 | 1.2 | 19.7 | 20.4 | 2.7 | 23.2 | | 23.9 | 24.4 | 25.1 | 26.0 | 27.4 |
| 8300.00 | 19.8 | -39.3 | -6.4 | -15.0 | 3.8 | 1.2 | 19.6 | 20.1 | 2.8 | 23.4 | 23.8 | 24.2 | 24.7 | 25.3 | 26.3 | 27.6 |
| 8400.00 | 18.5 | -42.4 | -5.1 | -12.0 | 5.4 | 1.2 | 19.0 | 19.5 | 3.0 | 24.2 | 23.9 | 24.3 | 24.7 | 25.3 | 26.4 | 27.9 |
| 8500.00 | 17.9 | -42.3 | -4.7 | -11.0 | 5.4 | 1.2 | 18.4 | 18.9 | 3.2 | 22.5 | 22.7 | 23.2 | 23.7 | 24.6 | 26.1 | 28.0 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 38.5 | 38.5 | 38.4 | 38.4 | 38.2 | 38.2 | 38.2 |
| 6000.0 | 34.4 | 34.3 | 34.2 | 34.1 | 33.9 | 33.8 | 33.8 |
| 7000.0 | 43.9 | 43.8 | 43.7 | 43.5 | 43.5 | 43.4 | 43.5 |
| 8000.0 | 52.2 | 52.1 | 51.9 | 51.8 | 51.7 | 51.7 | 51.7 |
| 8500.0 | 60.6 | 60.4 | 60.3 | 60.2 | 60.0 | 60.1 | 60.5 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.8 | -4.0 | -8.9 | 1.1 | 0.9 | 3.4 |
| 300.00 | -2.4 | -2.4 | -6.6 | -11.7 | 1.0 | 0.7 | 2.0 |
| 400.00 | -1.7 | -1.8 | -9.2 | -13.9 | 1.0 | 0.6 | 1.6 |
| 500.00 | -1.4 | -1.5 | -11.9 | -15.6 | 1.0 | 0.5 | 1.4 |
| 600.00 | -1.3 | -1.3 | -14.8 | -16.9 | 1.0 | 0.5 | 1.3 |
| 700.00 | -1.2 | -1.3 | -18.0 | -17.8 | 1.0 | 0.4 | 1.1 |
| 800.00 | -1.2 | -1.3 | -22.0 | -18.0 | 1.0 | 0.4 | 1.4 |
| 900.00 | -1.2 | -1.2 | -27.1 | -17.8 | 1.0 | 0.4 | 1.3 |
| 1000.00 | -1.1 | -1.2 | -31.2 | -17.4 | 1.0 | 0.4 | 1.1 |
| 1100.00 | -1.1 | -1.2 | -26.9 | -17.1 | 1.0 | 0.4 | 1.3 |
| 1200.00 | -1.1 | -1.2 | -23.2 | -16.8 | 1.0 | 0.4 | 1.2 |
| 1300.00 | -1.2 | -1.3 | -20.7 | -16.4 | 1.0 | 0.4 | 1.2 |
| 1400.00 | -1.2 | -1.3 | -18.8 | -15.9 | 1.0 | 0.4 | 1.2 |
| 1500.00 | -1.2 | -1.3 | -17.4 | -15.5 | 1.0 | 0.4 | 1.4 |
| 1600.00 | -1.3 | -1.4 | -16.3 | -15.4 | 1.0 | 0.5 | 1.4 |
| 1700.00 | -1.3 | -1.4 | -15.5 | -15.4 | 1.0 | 0.5 | 1.4 |
| 1800.00 | -1.3 | -1.5 | -14.8 | -15.3 | 1.0 | 0.5 | 1.5 |
| 1900.00 | -1.4 | -1.5 | -14.3 | -15.1 | 1.0 | 0.5 | 1.3 |
| 2000.00 | -1.4 | -1.6 | -13.9 | -15.0 | 1.0 | 0.5 | 1.6 |
| 2100.00 | -1.4 | -1.6 | -13.6 | -15.2 | 1.0 | 0.5 | 1.2 |
| 2200.00 | -1.4 | -1.6 | -13.4 | -15.5 | 1.0 | 0.5 | 1.7 |
| 2300.00 | -1.5 | -1.7 | -13.3 | -15.8 | 1.0 | 0.5 | 1.7 |
| 2400.00 | -1.5 | -1.7 | -13.2 | -16.1 | 1.0 | 0.6 | 1.8 |
| 2500.00 | -1.5 | -1.8 | -13.2 | -16.6 | 1.0 | 0.6 | 1.9 |
| 2600.00 | -1.5 | -1.8 | -13.2 | -17.3 | 1.1 | 0.6 | 2.0 |
| 2700.00 | -1.6 | -1.9 | -13.4 | -18.1 | 1.1 | 0.6 | 1.9 |
| 2800.00 | -1.6 | -2.0 | -13.5 | -18.9 | 1.1 | 0.6 | 2.4 |
| 2900.00 | -1.6 | -2.0 | -13.7 | -19.7 | 1.1 | 0.6 | 2.0 |
| 3000.00 | -1.6 | -2.0 | -13.8 | -20.8 | 1.1 | 0.6 | 1.9 |
| 3100.00 | -1.6 | -2.0 | -13.9 | -22.4 | 1.1 | 0.6 | 1.7 |
| 3200.00 | -1.6 | -2.0 | -14.0 | -24.2 | 1.1 | 0.6 | 1.8 |
| 3300.00 | -1.6 | -2.0 | -14.0 | -25.9 | 1.1 | 0.6 | 1.9 |
| 3400.00 | -1.7 | -2.0 | -14.1 | -27.7 | 1.1 | 0.6 | 2.1 |
| 3500.00 | -1.7 | -2.0 | -14.0 | -28.6 | 1.1 | 0.6 | 2.1 |
| 3600.00 | -1.7 | -2.0 | -14.0 | -26.8 | 1.1 | 0.6 | 1.9 |
| 3700.00 | -1.7 | -2.0 | -13.9 | -24.3 | 1.1 | 0.6 | 2.1 |
| 3800.00 | -1.7 | -2.0 | -13.7 | -22.2 | 1.1 | 0.6 | 2.0 |
| 3900.00 | -1.7 | -2.0 | -13.5 | -20.6 | 1.1 | 0.6 | 1.9 |
| 4000.00 | -1.8 | -2.0 | -13.3 | -19.1 | 1.1 | 0.6 | 2.1 |
| 4100.00 | -1.8 | -2.1 | -13.0 | -17.6 | 1.1 | 0.6 | 1.6 |
| 4200.00 | -1.8 | -2.1 | -12.7 | -16.5 | 1.1 | 0.6 | 2.1 |
| 4300.00 | -1.8 | -2.1 | -12.5 | -15.7 | 1.1 | 0.6 | 2.1 |
| 4400.00 | -1.8 | -2.1 | -12.2 | -15.0 | 1.1 | 0.6 | 2.2 |
| 4500.00 | -1.8 | -2.2 | -11.9 | -14.2 | 1.1 | 0.6 | 1.8 |
| 4600.00 | -1.9 | -2.2 | -11.7 | -13.6 | 1.1 | 0.6 | 1.7 |
| 4700.00 | -1.9 | -2.2 | -11.5 | -13.1 | 1.1 | 0.6 | 2.2 |
| 4800.00 | -1.9 | -2.3 | -11.3 | -12.8 | 1.1 | 0.6 | 2.1 |
| 4900.00 | -1.9 | -2.3 | -11.2 | -12.5 | 1.1 | 0.6 | 2.4 |
| 5000.00 | -1.9 | -2.3 | -11.1 | -12.1 | 1.1 | 0.6 | 2.4 |
| 5100.00 | -1.9 | -2.4 | -11.0 | -11.9 | 1.1 | 0.6 | 1.9 |
| 5200.00 | -1.9 | -2.4 | -10.9 | -11.7 | 1.1 | 0.6 | 3.0 |
| 5300.00 | -1.9 | -2.4 | -10.9 | -11.6 | 1.1 | 0.6 | 2.3 |
| 5400.00 | -1.9 | -2.4 | -10.9 | -11.5 | 1.1 | 0.6 | 2.2 |
| 5500.00 | -1.9 | -2.4 | -10.9 | -11.3 | 1.1 | 0.6 | 2.2 |
| 5600.00 | -1.9 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 2.6 |
| 5700.00 | -1.9 | -2.4 | -11.1 | -11.4 | 1.1 | 0.6 | 1.8 |
| 5800.00 | -1.8 | -2.4 | -11.2 | -11.3 | 1.1 | 0.6 | 2.1 |
| 5900.00 | -1.8 | -2.4 | -11.6 | -11.5 | 1.1 | 0.6 | 2.5 |
| 6000.00 | -1.8 | -2.4 | -11.7 | -11.5 | 1.1 | 0.6 | 2.8 |
| 6100.00 | -1.7 | -2.3 | -12.0 | -11.6 | 1.1 | 0.6 | 2.0 |
| 6200.00 | -1.7 | -2.3 | -12.4 | -11.9 | 1.1 | 0.6 | 1.9 |
| 6300.00 | -1.7 | -2.3 | -12.6 | -12.0 | 1.1 | 0.6 | 2.0 |
| 6400.00 | -1.7 | -2.3 | -13.0 | -12.3 | 1.1 | 0.6 | 2.3 |
| 6500.00 | -1.7 | -2.3 | -13.2 | -12.3 | 1.1 | 0.6 | 1.6 |
| 6600.00 | -1.7 | -2.3 | -13.4 | -12.4 | 1.1 | 0.6 | 2.0 |
| 6700.00 | -1.6 | -2.3 | -13.9 | -12.7 | 1.1 | 0.6 | 2.3 |
| 6800.00 | -1.7 | -2.3 | -14.0 | -12.8 | 1.1 | 0.6 | 2.1 |
| 6900.00 | -1.6 | -2.3 | -14.0 | -12.7 | 1.1 | 0.6 | 1.9 |
| 7000.00 | -1.7 | -2.3 | -14.2 | -12.8 | 1.1 | 0.6 | 2.2 |
| 7100.00 | -1.7 | -2.4 | -14.1 | -12.8 | 1.1 | 0.6 | 1.8 |
| 7200.00 | -1.7 | -2.4 | -13.9 | -12.7 | 1.1 | 0.6 | 1.9 |
| 7300.00 | -1.8 | -2.4 | -13.8 | -12.6 | 1.1 | 0.6 | 2.2 |
| 7400.00 | -1.9 | -2.5 | -13.2 | -12.1 | 1.1 | 0.6 | 2.7 |
| 7500.00 | -1.9 | -2.5 | -12.8 | -12.0 | 1.1 | 0.6 | 2.3 |
| 7600.00 | -2.0 | -2.7 | -12.4 | -11.7 | 1.1 | 0.6 | 2.4 |
| 7700.00 | -2.1 | -2.7 | -11.7 | -11.1 | 1.1 | 0.6 | 2.4 |
| 7800.00 | -2.2 | -2.8 | -11.2 | -10.7 | 1.1 | 0.6 | 2.6 |
| 7900.00 | -2.4 | -3.0 | -10.7 | -10.1 | 1.2 | 0.6 | 2.5 |
| 8000.00 | -2.4 | -3.0 | -9.8 | -9.5 | 1.1 | 0.6 | 2.2 |

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 36.3 | 35.2 | 32.7 | 29.1 | 24.3 | 18.0 | 16.3 |
| 1000.0 | 40.0 | 38.3 | 35.4 | 30.9 | 24.7 | 16.5 | 15.4 |
| 2000.0 | 41.0 | 40.7 | 39.0 | 35.9 | 31.3 | 24.1 | 17.6 |
| 4000.0 | 40.8 | 41.5 | 41.4 | 40.1 | 37.5 | 32.9 | 26.5 |
| 6000.0 | 40.4 | 41.2 | 41.3 | 39.8 | 36.3 | 30.6 | 21.1 |
| 8000.0 | 39.8 | 40.8 | 41.5 | 40.3 | 36.9 | 31.3 | 21.2 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.8 | 70.5 | 70.0 | 68.9 | 65.5 | 55.1 | 46.2 |
| 1000.0 | 70.8 | 71.0 | 71.1 | 70.9 | 67.3 | 52.8 | 61.2 |
| 2000.0 | 70.3 | 70.2 | 70.2 | 70.1 | 69.4 | 65.0 | 54.4 |
| 4000.0 | 74.3 | 74.3 | 74.3 | 74.4 | 74.6 | 75.1 | 74.3 |
| 6000.0 | 74.3 | 74.1 | 73.8 | 73.5 | 73.1 | 71.9 | 64.3 |
| 8000.0 | 84.3 | 84.1 | 84.2 | 84.1 | 83.8 | 83.0 | 78.1 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 13.7 | 10.8 |
| 1000.0 | 12.9 | 10.3 |
| 2000.0 | 14.7 | 12.0 |
| 4000.0 | 17.1 | 13.3 |
| 6000.0 | 17.6 | 14.0 |
| 8000.0 | 17.6 | 13.0 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +25°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.3 | -20.0 | -17.8 | 1.1 | 0.7 | 2.2 |
| 5600.00 | -1.7 | -2.3 | -20.5 | -17.7 | 1.1 | 0.7 | 2.4 |
| 5700.00 | -1.7 | -2.3 | -20.4 | -17.4 | 1.1 | 0.7 | 2.3 |
| 5800.00 | -1.6 | -2.3 | -19.9 | -16.8 | 1.1 | 0.7 | 2.2 |
| 5900.00 | -1.6 | -2.3 | -19.0 | -16.2 | 1.1 | 0.7 | 2.1 |
| 6000.00 | -1.6 | -2.3 | -18.2 | -15.5 | 1.1 | 0.7 | 2.3 |
| 6100.00 | -1.6 | -2.4 | -17.1 | -14.7 | 1.1 | 0.6 | 2.5 |
| 6200.00 | -1.7 | -2.4 | -16.2 | -14.1 | 1.1 | 0.6 | 2.4 |
| 6300.00 | -1.7 | -2.4 | -15.2 | -13.4 | 1.1 | 0.6 | 2.5 |
| 6400.00 | -1.7 | -2.5 | -14.5 | -12.8 | 1.1 | 0.6 | 2.2 |
| 6500.00 | -1.8 | -2.5 | -13.6 | -12.2 | 1.1 | 0.6 | 2.2 |
| 6600.00 | -1.8 | -2.6 | -12.9 | -11.7 | 1.1 | 0.6 | 2.4 |
| 6700.00 | -1.9 | -2.7 | -12.1 | -11.1 | 1.1 | 0.6 | 2.4 |
| 6800.00 | -1.9 | -2.7 | -11.5 | -10.6 | 1.1 | 0.6 | 2.5 |
| 6900.00 | -2.0 | -2.8 | -10.8 | -10.0 | 1.1 | 0.6 | 2.4 |
| 7000.00 | -2.1 | -2.9 | -10.2 | -9.6 | 1.1 | 0.6 | 2.6 |
| 7100.00 | -2.2 | -3.0 | -9.6 | -9.1 | 1.1 | 0.6 | 2.3 |
| 7200.00 | -2.3 | -3.1 | -9.1 | -8.6 | 1.1 | 0.6 | 2.5 |
| 7300.00 | -2.5 | -3.2 | -8.5 | -8.1 | 1.1 | 0.6 | 2.3 |
| 7400.00 | -2.6 | -3.4 | -8.0 | -7.8 | 1.1 | 0.6 | 2.5 |
| 7500.00 | -2.7 | -3.5 | -7.5 | -7.3 | 1.1 | 0.6 | 2.8 |
| 7600.00 | -2.9 | -3.7 | -7.1 | -6.9 | 1.1 | 0.6 | 2.7 |
| 7700.00 | -3.1 | -3.8 | -6.6 | -6.5 | 1.1 | 0.6 | 2.7 |
| 7800.00 | -3.3 | -4.0 | -6.2 | -6.2 | 1.1 | 0.6 | 2.6 |
| 7900.00 | -3.5 | -4.2 | -5.8 | -5.8 | 1.2 | 0.6 | 2.9 |
| 8000.00 | -3.6 | -4.4 | -5.5 | -5.6 | 1.2 | 0.6 | 3.2 |
| 8100.00 | -3.9 | -4.6 | -5.1 | -5.2 | 1.2 | 0.6 | 3.1 |
| 8200.00 | -4.1 | -4.8 | -4.9 | -5.0 | 1.2 | 0.6 | 3.0 |
| 8300.00 | -4.3 | -5.0 | -4.5 | -4.7 | 1.2 | 0.6 | 3.0 |
| 8400.00 | -4.5 | -5.2 | -4.3 | -4.6 | 1.2 | 0.6 | 2.9 |
| 8500.00 | -4.6 | -5.3 | -4.0 | -4.2 | 1.2 | 0.6 | 3.1 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 16.5 | 13.4 |
| 6000.0 | 18.4 | 14.3 |
| 7000.0 | 19.8 | 15.2 |
| 8000.0 | 19.5 | 13.5 |
| 8500.0 | 18.8 | 12.3 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.6 | 70.5 | 70.3 | 70.1 | 69.8 | 68.6 | 64.1 | 41.1 | 41.2 | 41.0 | 40.1 | 39.0 | 35.4 | 29.3 |
| 6000.0 | 77.2 | 77.1 | 76.9 | 76.7 | 76.3 | 75.9 | 73.9 | 39.3 | 39.7 | 40.3 | 40.5 | 38.4 | 33.8 | 25.2 |
| 7000.0 | 88.7 | 88.6 | 88.4 | 88.2 | 87.9 | 87.2 | 85.2 | 38.7 | 39.2 | 40.0 | 40.0 | 37.6 | 33.3 | 27.1 |
| 8000.0 | 84.2 | 84.2 | 84.2 | 84.1 | 84.0 | 83.5 | 81.4 | 40.4 | 40.7 | 41.0 | 40.0 | 39.2 | 36.7 | 31.2 |
| 8500.0 | 91.5 | 91.4 | 91.3 | 91.2 | 91.2 | 92.3 | 97.6 | 40.5 | 41.4 | 41.0 | 38.9 | 34.1 | 26.2 | 17.2 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 74 mA, $I_{EN}$ = 2.11 mA @ Temperature = - 45°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.4 | -33.2 | -1.8 | -4.1 | 1.3 | 0.9 | 18.7 | 20.7 | 3.7 | 28.7 | 31.4 | 31.3 | 31.0 | 30.7 | 30.2 | 29.8 |
| 300.00 | 20.2 | -28.3 | -5.7 | -8.3 | 1.2 | 0.8 | 19.0 | 20.7 | 1.7 | 29.8 | 31.4 | 31.0 | 31.1 | 30.7 | 30.2 | 29.7 |
| 400.00 | 21.7 | -26.9 | -11.9 | -14.1 | 1.1 | 0.7 | 19.6 | 21.2 | 1.3 | 29.7 | 31.2 | 31.7 | 31.8 | 31.7 | 31.4 | 31.0 |
| 500.00 | 22.0 | -26.6 | -18.0 | -16.4 | 1.1 | 0.6 | 20.0 | 21.4 | 1.2 | 33.4 | 32.9 | 33.1 | 32.6 | 32.3 | 32.1 | 31.5 |
| 600.00 | 22.1 | -26.5 | -18.4 | -15.3 | 1.1 | 0.6 | 20.4 | 21.6 | 1.0 | 31.6 | 33.4 | 32.7 | 33.3 | 33.2 | 32.7 | 32.3 |
| 700.00 | 22.1 | -26.5 | -16.6 | -14.4 | 1.1 | 0.6 | 20.5 | 21.9 | 1.0 | 30.6 | 32.5 | 33.0 | 32.1 | 31.9 | 31.6 | 31.1 |
| 800.00 | 22.1 | -26.6 | -15.6 | -14.0 | 1.1 | 0.6 | 20.7 | 22.0 | 1.0 | 33.0 | 33.0 | 33.1 | 33.0 | 32.6 | 32.4 | 32.0 |
| 900.00 | 22.1 | -26.5 | -15.1 | -13.9 | 1.1 | 0.6 | 20.8 | 22.1 | 1.0 | 31.5 | 33.5 | 32.6 | 32.6 | 32.4 | 32.2 | 31.8 |
| 1000.00 | 22.1 | -26.6 | -14.8 | -14.0 | 1.1 | 0.6 | 20.8 | 22.2 | 1.1 | 31.7 | 32.1 | 32.4 | 32.7 | 32.3 | 32.2 | 31.8 |
| 1100.00 | 22.1 | -26.6 | -14.8 | -14.3 | 1.1 | 0.6 | 20.7 | 22.1 | 1.0 | 33.9 | 33.5 | 32.1 | 32.4 | 32.4 | 32.0 | 31.7 |
| 1200.00 | 22.1 | -26.7 | -14.9 | -14.9 | 1.1 | 0.6 | 20.9 | 22.3 | 1.1 | 32.4 | 33.3 | 32.6 | 32.2 | 31.8 | 31.6 | 31.2 |
| 1300.00 | 22.1 | -26.7 | -15.0 | -15.5 | 1.1 | 0.6 | 20.9 | 22.3 | 1.0 | 32.4 | 31.6 | 31.8 | 31.6 | 31.5 | 31.3 | 31.0 |
| 1400.00 | 22.1 | -26.7 | -15.4 | -16.3 | 1.1 | 0.6 | 20.8 | 22.2 | 1.0 | 31.8 | 32.9 | 31.9 | 31.5 | 31.6 | 31.3 | 31.0 |
| 1500.00 | 22.1 | -26.7 | -15.7 | -17.5 | 1.1 | 0.7 | 20.8 | 22.3 | 1.0 | 31.9 | 31.1 | 31.1 | 30.9 | 30.6 | 30.4 | 30.1 |
| 1600.00 | 22.1 | -26.8 | -15.8 | -18.8 | 1.1 | 0.7 | 20.8 | 22.3 | 1.0 | 32.2 | 31.1 | 30.7 | 30.8 | 30.7 | 30.4 | 30.2 |
| 1700.00 | 22.1 | -26.9 | -15.8 | -20.0 | 1.1 | 0.7 | 20.9 | 22.4 | 1.1 | 30.4 | 30.2 | 31.0 | 31.1 | 30.8 | 30.6 | 30.3 |
| 1800.00 | 22.2 | -26.9 | -16.0 | -22.1 | 1.1 | 0.7 | 20.7 | 22.3 | 1.1 | 31.6 | 30.1 | 30.9 | 30.7 | 30.5 | 30.3 | 30.0 |
| 1900.00 | 22.2 | -26.9 | -16.1 | -25.1 | 1.1 | 0.7 | 20.6 | 22.3 | 1.1 | 30.2 | 29.6 | 30.1 | 30.1 | 30.0 | 29.7 | 29.5 |
| 2000.00 | 22.2 | -26.9 | -15.9 | -28.9 | 1.1 | 0.7 | 20.4 | 22.2 | 1.1 | 29.4 | 31.5 | 30.3 | 30.5 | 30.2 | 30.0 | 29.7 |
| 2100.00 | 22.2 | -27.0 | -15.5 | -32.9 | 1.1 | 0.7 | 20.6 | 22.3 | 1.1 | 31.0 | 30.4 | 30.6 | 30.7 | 30.2 | 29.9 | 29.7 |
| 2200.00 | 22.2 | -27.1 | -15.2 | -32.5 | 1.1 | 0.7 | 20.5 | 22.3 | 1.1 | 32.9 | 30.3 | 30.2 | 30.5 | 30.2 | 29.9 | 29.7 |
| 2300.00 | 22.2 | -27.1 | -14.7 | -28.2 | 1.2 | 0.7 | 20.5 | 22.5 | 1.1 | 30.6 | 30.8 | 30.9 | 30.2 | 30.1 | 29.9 | 29.6 |
| 2400.00 | 22.2 | -27.3 | -14.2 | -25.2 | 1.2 | 0.7 | 20.5 | 22.7 | 1.2 | 29.8 | 29.2 | 28.4 | 28.3 | 28.2 | 27.9 | 27.6 |
| 2500.00 | 22.2 | -27.3 | -14.0 | -23.3 | 1.2 | 0.7 | 20.4 | 22.7 | 1.2 | 28.4 | 28.1 | 28.4 | 28.3 | 28.1 | 27.8 | 27.5 |
| 2600.00 | 22.2 | -27.4 | -13.6 | -21.5 | 1.2 | 0.7 | 20.2 | 22.8 | 1.2 | 29.4 | 28.8 | 28.6 | 28.6 | 28.2 | 27.9 | 27.5 |
| 2700.00 | 22.1 | -27.5 | -13.3 | -20.2 | 1.2 | 0.7 | 19.8 | 22.4 | 1.3 | 28.6 | 28.8 | 28.7 | 28.4 | 28.3 | 28.0 | 27.7 |
| 2800.00 | 22.1 | -27.6 | -12.9 | -19.2 | 1.2 | 0.8 | 19.6 | 22.1 | 1.2 | 28.4 | 27.9 | 27.9 | 27.9 | 27.7 | 27.4 | 27.0 |
| 2900.00 | 22.1 | -27.7 | -12.4 | -18.0 | 1.2 | 0.8 | 19.3 | 21.9 | 1.3 | 29.2 | | 28.4 | 28.2 | 27.9 | 27.7 | 27.2 |
| 3000.00 | 22.0 | -27.8 | -12.0 | -17.1 | 1.2 | 0.8 | 19.6 | 22.1 | 1.3 | 26.6 | 27.3 | 27.0 | 26.9 | 26.6 | 26.2 | 25.8 |
| 3100.00 | 22.0 | -27.8 | -11.6 | -16.3 | 1.2 | 0.8 | 19.5 | 22.5 | 1.3 | 27.1 | 26.6 | 26.9 | 26.7 | 26.4 | 26.1 | 25.8 |
| 3200.00 | 22.0 | -27.8 | -11.3 | -15.9 | 1.2 | 0.8 | 19.4 | 22.5 | 1.2 | 27.9 | 27.6 | 27.6 | 27.3 | 27.1 | 26.9 | 26.5 |
| 3300.00 | 22.0 | -27.8 | -11.1 | -15.6 | 1.2 | 0.8 | 19.5 | 22.3 | 1.2 | 27.4 | 26.8 | 26.8 | 27.0 | 26.7 | 26.4 | 26.0 |
| 3400.00 | 22.0 | -27.8 | -11.0 | -15.3 | 1.2 | 0.8 | 19.2 | 22.1 | 1.3 | 27.9 | 27.4 | 27.5 | 27.3 | 27.1 | 26.9 | 26.6 |
| 3500.00 | 22.0 | -27.9 | -10.9 | -15.2 | 1.2 | 0.8 | 19.3 | 22.2 | 1.3 | 27.7 | 27.3 | 27.0 | 27.0 | 26.6 | 26.4 | 26.1 |
| 3600.00 | 22.1 | -27.9 | -11.0 | -15.3 | 1.2 | 0.8 | 19.3 | 22.3 | 1.2 | 26.5 | 27.3 | 27.0 | 27.0 | 26.8 | 26.6 | 26.3 |
| 3700.00 | 22.1 | -27.9 | -11.0 | -15.5 | 1.2 | 0.8 | 19.2 | 22.4 | 1.2 | 27.8 | 27.8 | 28.1 | 28.1 | 28.0 | 27.7 | 27.5 |
| 3800.00 | 22.1 | -27.9 | -11.1 | -15.7 | 1.2 | 0.8 | 19.4 | 22.5 | 1.2 | 27.3 | 27.9 | 27.7 | 27.6 | 27.5 | 27.2 | 27.0 |
| 3900.00 | 22.1 | -28.0 | -11.2 | -15.8 | 1.2 | 0.8 | 19.8 | 22.5 | 1.2 | 28.0 | 27.8 | 27.5 | 27.4 | 27.2 | 27.0 | 26.6 |
| 4000.00 | 22.2 | -28.0 | -11.3 | -16.2 | 1.2 | 0.8 | 19.9 | 22.7 | 1.2 | 27.9 | 27.5 | 27.7 | 27.7 | 27.4 | 27.2 | 26.9 |
| 4100.00 | 22.2 | -28.0 | -11.6 | -16.6 | 1.2 | 0.8 | 20.3 | 22.8 | 1.2 | 27.2 | 27.2 | 27.3 | 27.1 | 26.9 | 26.7 | 26.2 |
| 4200.00 | 22.3 | -28.0 | -11.8 | -17.2 | 1.2 | 0.8 | 20.3 | 22.7 | 1.1 | 27.4 | 27.2 | 27.4 | 27.3 | 27.1 | 26.9 | 26.5 |
| 4300.00 | 22.3 | -28.0 | -12.1 | -17.6 | 1.2 | 0.8 | 20.3 | 22.9 | 1.2 | 27.9 | 27.2 | 27.4 | 27.5 | 27.2 | 27.0 | 26.5 |
| 4400.00 | 22.3 | -28.1 | -12.6 | -18.4 | 1.2 | 0.8 | 20.2 | 23.0 | 1.2 | 28.1 | 27.5 | 27.2 | 27.5 | 27.2 | 26.9 | 26.4 |
| 4500.00 | 22.4 | -28.1 | -12.8 | -19.1 | 1.2 | 0.8 | 20.0 | 23.4 | 1.2 | 27.6 | 27.3 | 27.2 | 27.1 | 26.9 | 26.6 | 26.1 |
| 4600.00 | 22.4 | -28.2 | -13.4 | -19.6 | 1.2 | 0.8 | 19.7 | 23.6 | 1.1 | 26.9 | 26.9 | 26.9 | 26.8 | 26.6 | 26.2 | 25.7 |
| 4700.00 | 22.4 | -28.2 | -14.0 | -21.0 | 1.2 | 0.8 | 19.8 | 23.3 | 1.1 | 27.6 | 27.1 | 27.0 | 26.9 | 26.7 | 26.4 | 26.0 |
| 4800.00 | 22.5 | -28.2 | -14.4 | -21.6 | 1.2 | 0.8 | 19.9 | 23.0 | 1.1 | 27.5 | 27.6 | 27.4 | 27.2 | 27.1 | 26.9 | 26.6 |
| 4900.00 | 22.5 | -28.3 | -15.4 | -21.9 | 1.2 | 0.8 | 19.7 | 22.9 | 1.2 | 26.2 | 26.2 | 26.1 | 26.2 | 25.9 | 25.6 | 25.2 |
| 5000.00 | 22.6 | -28.3 | -15.8 | -23.1 | 1.2 | 0.8 | 19.8 | 22.8 | 1.3 | 26.0 | 25.7 | 25.7 | 25.7 | 25.5 | 25.2 | 24.9 |
| 5100.00 | 22.7 | -28.5 | -16.7 | -23.6 | 1.3 | 0.8 | 20.1 | 22.5 | 1.1 | 25.6 | 25.7 | 25.8 | 25.8 | 25.7 | 25.6 | 25.4 |
| 5200.00 | 22.6 | -28.5 | -17.9 | -23.9 | 1.3 | 0.8 | 20.2 | 22.4 | 1.1 | 26.0 | 26.5 | 26.5 | 26.4 | 26.3 | 26.3 | 26.3 |
| 5300.00 | 22.8 | -28.5 | -18.1 | -24.5 | 1.3 | 0.8 | 20.2 | 22.9 | 1.2 | 26.6 | 26.8 | 26.9 | 26.8 | 26.7 | 26.7 | 26.6 |
| 5400.00 | 22.7 | -28.7 | -19.7 | -23.8 | 1.3 | 0.8 | 20.0 | 23.2 | 1.2 | 26.1 | 25.9 | 25.9 | 26.1 | 26.0 | 25.8 | 25.6 |
| 5500.00 | 22.8 | -28.5 | -20.5 | -24.8 | 1.3 | 0.8 | 19.4 | 23.2 | 1.2 | 25.8 | 25.7 | 25.7 | 25.8 | 25.6 | 25.4 | 25.1 |
| 5600.00 | 22.9 | -28.7 | -20.0 | -25.3 | 1.3 | 0.8 | 18.6 | 23.0 | 1.2 | 25.6 | 25.6 | 25.7 | 25.5 | 25.3 | 25.0 | 24.7 |
| 5700.00 | 22.8 | -28.8 | -21.7 | -23.6 | 1.3 | 0.8 | 18.2 | 22.9 | 1.2 | 25.8 | 25.5 | 25.4 | 25.5 | 25.3 | 24.9 | 24.5 |
| 5800.00 | 22.9 | -28.7 | -20.6 | -25.2 | 1.3 | 0.8 | 18.3 | 22.7 | 1.2 | 25.0 | 25.2 | 24.9 | 24.9 | 24.7 | 24.3 | 23.9 |
| 5900.00 | 22.9 | -29.0 | -18.9 | -23.4 | 1.3 | 0.8 | 18.4 | 22.7 | 1.2 | 24.8 | 24.8 | 24.7 | 24.7 | 24.5 | 24.2 | 24.0 |
| 6000.00 | 22.8 | -28.9 | -19.6 | -22.9 | 1.3 | 0.8 | 17.6 | 22.7 | 1.3 | 23.5 | 23.7 | 23.7 | 23.6 | 23.4 | 23.0 | 23.6 |
| 6100.00 | 23.0 | -28.9 | -17.0 | -23.1 | 1.3 | 0.8 | 17.8 | 22.3 | 1.2 | 23.4 | 23.8 | 23.7 | 23.7 | 23.6 | 23.5 | 24.2 |
| 6200.00 | 22.9 | -29.3 | -15.5 | -20.3 | 1.3 | 0.8 | 17.7 | 21.9 | 1.3 | 23.2 | 23.3 | 23.4 | 23.4 | 23.3 | 23.4 | 24.1 |
| 6300.00 | 22.9 | -29.1 | -15.2 | -20.5 | 1.3 | 0.8 | 17.6 | 21.1 | 1.3 | 23.3 | 23.7 | 23.6 | 23.7 | 23.8 | 24.0 | 24.5 |
| 6400.00 | 23.0 | -29.3 | -13.1 | -18.5 | 1.3 | 0.8 | 17.6 | 20.3 | 1.3 | 22.7 | 22.8 | 22.9 | 23.1 | 23.1 | 23.3 | 24.0 |
| 6500.00 | 22.8 | -29.7 | -12.4 | -16.7 | 1.3 | 0.8 | 17.7 | 20.2 | 1.4 | 23.2 | 23.2 | 23.2 | 23.2 | 23.3 | 23.4 | 23.8 |
| 6600.00 | 22.9 | -29.5 | -11.3 | -16.4 | 1.3 | 0.8 | 18.0 | 20.3 | 1.4 | 23.6 | 23.6 | 23.7 | 23.7 | 23.8 | 23.9 | 24.1 |
| 6700.00 | 22.9 | -29.9 | -9.7 | -14.4 | 1.3 | 0.8 | 17.8 | 20.1 | 1.4 | 22.8 | 23.1 | 23.1 | 23.1 | 23.1 | 23.2 | 23.4 |
| 6800.00 | 22.6 | -30.5 | -9.1 | -13.2 | 1.4 | 0.9 | 17.9 | 20.0 | 1.4 | 23.0 | 23.1 | 23.1 | 23.2 | 23.2 | 23.2 | 23.4 |
| 6900.00 | 22.7 | -30.6 | -8.1 | -12.3 | 1.3 | 0.9 | 17.9 | 19.9 | 1.4 | 22.6 | 22.6 | 22.7 | 22.8 | 22.9 | 23.0 | 23.2 |
| 7000.00 | 22.5 | -31.2 | -7.0 | -10.9 | 1.4 | 0.9 | 18.2 | 20.1 | 1.5 | 21.6 | 21.7 | 21.8 | 21.9 | 21.9 | 21.9 | 22.4 |
| 7100.00 | 22.1 | -31.6 | -6.7 | -10.2 | 1.4 | 0.9 | 18.3 | 20.1 | 1.4 | 21.8 | 21.8 | 21.9 | 22.0 | 22.0 | 22.0 | 22.4 |
| 7200.00 | 22.0 | -32.2 | -5.8 | -9.2 | 1.4 | 0.9 | 18.2 | 19.8 | 1.5 | 22.1 | 22.1 | 22.1 | 22.1 | 22.2 | 22.2 | 22.6 |
| 7300.00 | 21.5 | -33.3 | -5.1 | -8.2 | 1.5 | 1.0 | 18.3 | 19.7 | 1.5 | 21.0 | 21.2 | 21.2 | 21.3 | 21.3 | 21.4 | 22.1 |
| 7400.00 | 21.0 | -34.0 | -4.9 | -7.7 | 1.7 | 1.0 | 18.2 | 19.4 | 1.5 | 21.1 | 21.2 | 21.2 | 21.3 | 21.3 | 21.4 | 22.1 |
| 7500.00 | 20.6 | -35.2 | -4.2 | -6.9 | 1.8 | 1.0 | 17.9 | 19.0 | 1.6 | 19.8 | 19.9 | 19.9 | 19.9 | 19.9 | 20.3 | 21.7 |
| 7600.00 | 19.6 | -37.2 | -4.1 | -6.2 | 2.2 | 1.0 | 18.0 | 18.9 | 1.6 | 20.5 | 20.6 | 20.5 | 20.5 | 20.4 | 20.6 | 21.7 |
| 7700.00 | 18.9 | -38.0 | -4.1 | -6.0 | 2.5 | 1.0 | 17.9 | 18.7 | 1.7 | 20.0 | 19.8 | 20.0 | 20.0 | 19.9 | 20.3 | 21.7 |
| 7800.00 | 18.3 | -40.2 | -3.7 | -5.5 | 3.1 | 1.0 | 17.2 | 17.9 | 1.7 | 19.2 | 19.3 | 19.2 | 19.2 | 19.2 | 20.0 | 21.9 |
| 7900.00 | 17.1 | -43.0 | -4.1 | -5.0 | 4.7 | 0.9 | 16.5 | 17.1 | 1.8 | 18.7 | 18.7 | 18.6 | 18.5 | 18.8 | 19.9 | 22.0 |
| 8000.00 | 16.3 | -44.6 | -3.7 | -4.7 | 5.6 | 0.9 | 15.6 | 16.1 | 1.8 | 16.9 | 16.9 | 16.7 | 16.9 | 17.9 | 19.8 | 22.7 |

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 74 mA, $I_{EN}$ = 2.11 mA @ Temperature = - 45°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 38.9 | 38.8 | 38.7 | 38.6 | 38.4 | 38.0 | 37.6 |
| 1000.0 | 37.1 | 37.0 | 37.0 | 36.9 | 36.8 | 36.6 | 36.2 |
| 2000.0 | 35.6 | 35.2 | 35.2 | 35.1 | 35.1 | 35.0 | 34.8 |
| 4000.0 | 37.4 | 37.5 | 37.6 | 37.8 | 38.0 | 38.3 | 38.9 |
| 6000.0 | 27.5 | 27.5 | 27.4 | 27.4 | 27.3 | 27.3 | 27.6 |
| 8000.0 | 33.4 | 33.4 | 33.6 | 34.0 | 34.7 | 36.2 | 38.7 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 80 mA, $I_{EN}$ = 2.1 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 22.3 | -29.5 | -11.0 | -9.9 | 1.3 | 0.7 | 18.8 | 23.0 | 1.1 | 26.2 | 26.6 | 26.7 | 26.6 | 26.6 | 26.4 | 26.0 |
| 5600.00 | 22.4 | -29.6 | -10.8 | -10.2 | 1.3 | 0.7 | 18.4 | 23.0 | 1.1 | 25.2 | 25.8 | 25.3 | 25.4 | 25.2 | 24.9 | 24.4 |
| 5700.00 | 22.4 | -29.5 | -11.3 | -10.4 | 1.3 | 0.7 | 18.1 | 22.9 | 1.1 | 25.7 | 25.9 | 25.5 | 25.6 | 25.5 | 25.2 | 24.7 |
| 5800.00 | 22.5 | -29.6 | -11.0 | -10.6 | 1.3 | 0.7 | 17.8 | 22.9 | 1.1 | 25.7 | 25.5 | 25.4 | 25.4 | 25.4 | 25.1 | 24.5 |
| 5900.00 | 22.5 | -29.5 | -11.5 | -10.9 | 1.3 | 0.7 | 17.2 | 22.9 | 1.1 | 24.5 | 24.9 | 24.8 | 24.8 | 24.7 | 24.3 | 23.6 |
| 6000.00 | 22.7 | -29.6 | -11.1 | -11.0 | 1.3 | 0.7 | 16.4 | 22.6 | 1.1 | 23.0 | 23.0 | 23.0 | 23.0 | 22.8 | 22.2 | 22.5 |
| 6100.00 | 22.7 | -29.4 | -11.6 | -11.4 | 1.3 | 0.7 | 17.6 | 22.5 | 1.1 | 23.9 | 24.1 | 23.7 | 23.8 | 23.8 | 23.5 | 23.7 |
| 6200.00 | 22.8 | -29.6 | -11.3 | -11.5 | 1.3 | 0.8 | 17.9 | 22.3 | 1.1 | 23.2 | 23.7 | 23.2 | 23.2 | 23.2 | 23.2 | 24.1 |
| 6300.00 | 22.8 | -29.6 | -11.7 | -11.9 | 1.3 | 0.8 | 18.6 | 22.3 | 1.1 | 24.2 | 24.6 | 24.2 | 24.3 | 24.5 | 24.7 | 25.4 |
| 6400.00 | 23.0 | -29.7 | -11.4 | -11.8 | 1.3 | 0.8 | 18.7 | 22.1 | 1.1 | 24.2 | 24.4 | 24.2 | 24.3 | 24.6 | 24.8 | 25.6 |
| 6500.00 | 23.0 | -29.6 | -11.9 | -12.4 | 1.3 | 0.8 | 18.6 | 21.8 | 1.1 | 24.7 | 24.5 | 24.6 | 24.7 | 24.9 | 25.1 | 25.7 |
| 6600.00 | 23.1 | -29.9 | -11.7 | -12.5 | 1.3 | 0.8 | 19.0 | 21.8 | 1.1 | 24.4 | 25.2 | 24.7 | 24.9 | 25.0 | 25.4 | 25.7 |
| 6700.00 | 23.1 | -29.7 | -12.3 | -13.1 | 1.3 | 0.8 | 18.9 | 21.4 | 1.1 | 24.3 | 24.8 | 24.6 | 24.9 | 25.1 | 25.4 | 25.8 |
| 6800.00 | 23.2 | -30.1 | -12.2 | -13.1 | 1.3 | 0.8 | 19.0 | 21.2 | 1.2 | 24.9 | 25.0 | 25.1 | 25.3 | 25.6 | 25.9 | 26.3 |
| 6900.00 | 23.2 | -30.0 | -12.9 | -13.9 | 1.3 | 0.8 | 19.2 | 21.2 | 1.1 | 25.5 | 25.5 | 25.4 | 25.7 | 26.0 | 26.4 | 26.9 |
| 7000.00 | 23.3 | -30.3 | -12.8 | -14.0 | 1.3 | 0.8 | 19.4 | 21.2 | 1.2 | 24.6 | 25.2 | 25.1 | 25.2 | 25.6 | 26.0 | 26.4 |
| 7100.00 | 23.3 | -30.2 | -13.7 | -15.0 | 1.3 | 0.8 | 19.4 | 21.2 | 1.2 | 25.0 | 25.3 | 25.3 | 25.7 | 25.9 | 26.3 | 26.7 |
| 7200.00 | 23.4 | -30.5 | -13.9 | -15.1 | 1.4 | 0.8 | 19.6 | 21.3 | 1.3 | 25.3 | 25.6 | 25.4 | 25.7 | 26.0 | 26.4 | 27.0 |
| 7300.00 | 23.4 | -30.5 | -15.2 | -16.4 | 1.4 | 0.8 | 19.6 | 21.3 | 1.3 | 24.8 | 25.2 | 25.0 | 25.3 | 25.7 | 26.1 | 26.8 |
| 7400.00 | 23.5 | -30.9 | -15.4 | -16.6 | 1.4 | 0.8 | 19.9 | 21.4 | 1.3 | 24.6 | 25.1 | 25.1 | 25.4 | 25.7 | 26.3 | 27.0 |
| 7500.00 | 23.5 | -31.0 | -17.2 | -18.5 | 1.4 | 0.8 | 19.3 | 21.0 | 1.4 | 25.0 | 25.0 | 25.1 | 25.4 | 25.9 | 26.5 | 27.3 |
| 7600.00 | 23.6 | -31.4 | -17.3 | -18.5 | 1.5 | 0.9 | 19.4 | 21.0 | 1.4 | 25.0 | 24.7 | 25.0 | 25.2 | 25.6 | 26.1 | 26.8 |
| 7700.00 | 23.5 | -31.6 | -19.8 | -21.2 | 1.5 | 0.9 | 19.6 | 21.1 | 1.5 | 23.7 | 23.6 | 23.9 | 24.2 | 24.6 | 25.2 | 26.0 |
| 7800.00 | 23.5 | -32.1 | -18.5 | -21.2 | 1.6 | 0.9 | 19.2 | 20.6 | 1.6 | 24.2 | 24.6 | 24.7 | 25.1 | 25.5 | 26.2 | 27.1 |
| 7900.00 | 23.3 | -32.3 | -20.7 | -26.5 | 1.7 | 0.9 | 18.9 | 20.3 | 1.7 | 24.3 | 24.3 | 24.6 | 25.1 | 25.6 | 26.2 | 27.2 |
| 8000.00 | 23.3 | -33.3 | -16.9 | -24.9 | 1.8 | 0.9 | 18.4 | 19.8 | 1.8 | 23.6 | 24.1 | 24.0 | 24.5 | 25.1 | 26.0 | 27.1 |
| 8100.00 | 23.0 | -33.3 | -17.3 | -29.9 | 1.8 | 0.9 | 18.4 | 19.7 | 1.9 | 23.3 | 23.9 | 23.9 | 24.2 | 24.8 | 25.7 | 26.7 |
| 8200.00 | 22.7 | -35.1 | -12.9 | -20.6 | 2.2 | 1.0 | 18.0 | 19.3 | 2.0 | 22.6 | | 22.9 | 23.4 | 24.1 | 25.0 | 25.6 |
| 8300.00 | 22.4 | -34.7 | -12.9 | -19.6 | 2.2 | 1.0 | 18.0 | 19.2 | 2.1 | 22.8 | 23.2 | 23.3 | 23.7 | 24.4 | 25.2 | 26.0 |
| 8400.00 | 21.6 | -37.4 | -9.4 | -13.9 | 2.8 | 1.1 | 17.7 | 18.9 | 2.3 | 22.8 | 23.0 | 23.3 | 23.7 | 24.4 | 25.2 | 26.0 |
| 8500.00 | 21.4 | -36.9 | -9.0 | -13.1 | 2.7 | 1.1 | 17.3 | 18.4 | 2.4 | 21.4 | 21.4 | 21.8 | 22.3 | 23.1 | 24.3 | 23.7 |

| | FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 34.5 | 34.5 | 34.4 | 34.3 | 34.4 | 34.4 | 34.5 |
| 6000.0 | 29.1 | 29.1 | 28.9 | 28.8 | 28.7 | 28.6 | 28.6 |
| 7000.0 | 39.6 | 39.5 | 39.4 | 39.3 | 39.3 | 39.5 | 39.9 |
| 8000.0 | 48.5 | 48.4 | 48.3 | 48.2 | 48.1 | 48.3 | 48.8 |
| 8500.0 | 57.6 | 57.5 | 57.4 | 57.3 | 57.4 | 57.9 | 59.3 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | 3.5 | -3.6 | -4.0 | -8.2 | 1.0 | 0.8 | 2.5 |
| 300.00 | 2.2 | -2.2 | -6.6 | -11.0 | 1.0 | 0.6 | 1.3 |
| 400.00 | 1.6 | -1.7 | -9.2 | -13.3 | 1.0 | 0.5 | 1.0 |
| 500.00 | 1.3 | -1.3 | -11.9 | -15.2 | 1.0 | 0.4 | 0.9 |
| 600.00 | 1.1 | -1.2 | -14.9 | -17.0 | 1.0 | 0.4 | 0.8 |
| 700.00 | 1.1 | -1.1 | -18.2 | -18.5 | 1.0 | 0.4 | 0.8 |
| 800.00 | 1.1 | -1.1 | -22.3 | -19.0 | 1.0 | 0.4 | 0.9 |
| 900.00 | 1.0 | -1.1 | -28.3 | -18.7 | 1.0 | 0.4 | 0.9 |
| 1000.00 | 1.0 | -1.1 | -37.5 | -18.4 | 1.0 | 0.4 | 1.0 |
| 1100.00 | 1.0 | -1.1 | -29.0 | -17.9 | 1.0 | 0.4 | 0.7 |
| 1200.00 | 1.0 | -1.1 | -24.1 | -17.4 | 1.0 | 0.4 | 1.1 |
| 1300.00 | 1.0 | -1.1 | -21.2 | -16.9 | 1.0 | 0.4 | 0.5 |
| 1400.00 | 1.1 | -1.1 | -19.1 | -16.3 | 1.0 | 0.4 | 0.9 |
| 1500.00 | 1.1 | -1.2 | -17.7 | -15.8 | 1.0 | 0.4 | 0.8 |
| 1600.00 | 1.1 | -1.2 | -16.5 | -15.6 | 1.0 | 0.4 | 0.7 |
| 1700.00 | 1.2 | -1.2 | -15.7 | -15.6 | 1.0 | 0.4 | 0.9 |
| 1800.00 | 1.2 | -1.3 | -15.0 | -15.6 | 1.0 | 0.4 | 1.0 |
| 1900.00 | 1.2 | -1.4 | -14.5 | -15.4 | 1.0 | 0.4 | 0.9 |
| 2000.00 | 1.2 | -1.4 | -14.2 | -15.3 | 1.0 | 0.4 | 0.7 |
| 2100.00 | 1.3 | -1.4 | -14.0 | -15.5 | 1.0 | 0.5 | 1.1 |
| 2200.00 | 1.3 | -1.4 | -13.8 | -15.7 | 1.0 | 0.5 | 0.9 |
| 2300.00 | 1.3 | -1.5 | -13.7 | -16.0 | 1.0 | 0.5 | 1.0 |
| 2400.00 | 1.3 | -1.5 | -13.7 | -16.4 | 1.0 | 0.5 | 1.1 |
| 2500.00 | 1.3 | -1.5 | -13.6 | -16.9 | 1.0 | 0.5 | 1.1 |
| 2600.00 | 1.4 | -1.6 | -13.8 | -17.6 | 1.0 | 0.5 | 1.2 |
| 2700.00 | 1.4 | -1.7 | -14.0 | -18.5 | 1.0 | 0.5 | 1.2 |
| 2800.00 | 1.4 | -1.7 | -14.2 | -19.7 | 1.1 | 0.6 | 1.2 |
| 2900.00 | 1.4 | -1.8 | -14.5 | -20.7 | 1.1 | 0.6 | 1.4 |
| 3000.00 | 1.4 | -1.8 | -14.6 | -22.0 | 1.1 | 0.6 | 1.5 |
| 3100.00 | 1.4 | -1.8 | -14.7 | -23.9 | 1.1 | 0.6 | 1.3 |
| 3200.00 | 1.4 | -1.8 | -14.7 | -26.5 | 1.1 | 0.6 | 1.0 |
| 3300.00 | 1.4 | -1.7 | -14.7 | -29.4 | 1.1 | 0.6 | 1.5 |
| 3400.00 | 1.4 | -1.7 | -14.8 | -33.2 | 1.1 | 0.6 | 1.1 |
| 3500.00 | 1.5 | -1.7 | -14.8 | -34.6 | 1.1 | 0.6 | 1.4 |
| 3600.00 | 1.5 | -1.7 | -14.7 | -29.0 | 1.1 | 0.6 | 0.9 |
| 3700.00 | 1.5 | -1.7 | -14.6 | -25.7 | 1.1 | 0.6 | 1.2 |
| 3800.00 | 1.5 | -1.7 | -14.4 | -23.3 | 1.1 | 0.6 | 1.1 |
| 3900.00 | 1.5 | -1.7 | -14.2 | -21.3 | 1.1 | 0.6 | 1.2 |
| 4000.00 | 1.5 | -1.8 | -13.9 | -19.5 | 1.1 | 0.6 | 1.2 |
| 4100.00 | 1.5 | -1.8 | -13.5 | -18.1 | 1.1 | 0.6 | 1.5 |
| 4200.00 | 1.6 | -1.8 | -13.2 | -17.0 | 1.1 | 0.6 | 1.3 |
| 4300.00 | 1.6 | -1.8 | -12.9 | -16.0 | 1.1 | 0.6 | 1.3 |
| 4400.00 | 1.6 | -1.8 | -12.5 | -15.1 | 1.1 | 0.6 | 1.4 |
| 4500.00 | 1.6 | -1.9 | -12.3 | -14.5 | 1.1 | 0.6 | 1.1 |
| 4600.00 | 1.7 | -1.9 | -12.0 | -13.9 | 1.1 | 0.6 | 0.9 |
| 4700.00 | 1.7 | -1.9 | -11.8 | -13.3 | 1.1 | 0.6 | 1.7 |
| 4800.00 | 1.7 | -2.0 | -11.6 | -13.0 | 1.1 | 0.6 | 1.2 |
| 4900.00 | 1.7 | -2.0 | -11.4 | -12.7 | 1.1 | 0.6 | 1.1 |
| 5000.00 | 1.7 | -2.1 | -11.3 | -12.3 | 1.1 | 0.6 | 1.3 |
| 5100.00 | 1.7 | -2.1 | -11.2 | -12.1 | 1.1 | 0.6 | 1.3 |
| 5200.00 | 1.7 | -2.1 | -11.0 | -11.9 | 1.1 | 0.6 | 0.5 |
| 5300.00 | 1.7 | -2.1 | -11.0 | -11.8 | 1.1 | 0.6 | 0.9 |
| 5400.00 | 1.7 | -2.2 | -11.0 | -11.7 | 1.1 | 0.6 | 1.4 |
| 5500.00 | 1.7 | -2.2 | -10.9 | -11.4 | 1.1 | 0.5 | 1.4 |
| 5600.00 | 1.7 | -2.2 | -11.0 | -11.4 | 1.1 | 0.5 | 1.4 |
| 5700.00 | 1.7 | -2.2 | -11.0 | -11.4 | 1.1 | 0.5 | 1.5 |
| 5800.00 | 1.7 | -2.1 | -11.1 | -11.3 | 1.1 | 0.5 | 1.6 |
| 5900.00 | 1.7 | -2.1 | -11.4 | -11.5 | 1.1 | 0.5 | 1.8 |
| 6000.00 | 1.6 | -2.1 | -11.4 | -11.3 | 1.1 | 0.5 | 1.5 |
| 6100.00 | 1.6 | -2.1 | -11.7 | -11.5 | 1.1 | 0.5 | 1.1 |
| 6200.00 | 1.6 | -2.1 | -11.9 | -11.7 | 1.1 | 0.5 | 1.5 |
| 6300.00 | 1.6 | -2.1 | -12.0 | -11.6 | 1.1 | 0.5 | 1.2 |
| 6400.00 | 1.6 | -2.0 | -12.4 | -11.9 | 1.1 | 0.5 | 1.3 |
| 6500.00 | 1.6 | -2.1 | -12.5 | -11.9 | 1.1 | 0.5 | 1.2 |
| 6600.00 | 1.5 | -2.0 | -12.6 | -11.8 | 1.1 | 0.5 | 1.7 |
| 6700.00 | 1.5 | -2.0 | -12.9 | -12.1 | 1.1 | 0.5 | 1.3 |
| 6800.00 | 1.6 | -2.1 | -13.0 | -12.1 | 1.1 | 0.5 | 1.1 |
| 6900.00 | 1.5 | -2.0 | -13.1 | -12.1 | 1.1 | 0.5 | 1.3 |
| 7000.00 | 1.6 | -2.1 | -13.2 | -12.1 | 1.1 | 0.5 | 1.5 |
| 7100.00 | 1.6 | -2.1 | -13.0 | -11.9 | 1.1 | 0.5 | 1.8 |
| 7200.00 | 1.6 | -2.1 | -12.9 | -11.9 | 1.1 | 0.5 | 1.3 |
| 7300.00 | 1.7 | -2.2 | -12.8 | -11.7 | 1.1 | 0.6 | 1.5 |
| 7400.00 | 1.7 | -2.3 | -12.4 | -11.4 | 1.1 | 0.6 | 2.0 |
| 7500.00 | 1.8 | -2.3 | -12.1 | -11.2 | 1.1 | 0.6 | 2.6 |
| 7600.00 | 1.9 | -2.4 | -11.8 | -10.9 | 1.1 | 0.6 | 1.4 |
| 7700.00 | 2.0 | -2.5 | -11.1 | -10.4 | 1.1 | 0.6 | 2.0 |
| 7800.00 | 2.1 | -2.6 | -10.8 | -10.2 | 1.1 | 0.6 | 2.6 |
| 7900.00 | 2.3 | -2.8 | -10.3 | -9.6 | 1.1 | 0.6 | 1.8 |
| 8000.00 | 2.3 | -2.8 | -9.6 | -9.1 | 1.1 | 0.6 | 2.3 |

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 43.0 | 44.2 | 44.3 | 44.1 | 41.7 | 33.0 | 24.0 |
| 1000.0 | 42.3 | 43.9 | 45.5 | 43.5 | 33.1 | 23.1 | 16.7 |
| 2000.0 | 42.6 | 44.6 | 46.1 | 46.6 | 41.8 | 31.5 | 20.5 |
| 4000.0 | 43.0 | 43.4 | 44.6 | 44.9 | 45.1 | 43.4 | 35.8 |
| 6000.0 | 41.7 | 43.3 | 44.2 | 45.7 | 46.3 | 44.2 | 33.7 |
| 8000.0 | 45.1 | 46.1 | 46.1 | 46.8 | 46.7 | 44.0 | 34.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 71.1 | 70.9 | 70.7 | 70.5 | 70.3 | 68.9 | 60.3 |
| 1000.0 | 71.2 | 71.3 | 71.5 | 71.9 | 72.2 | 65.0 | 52.0 |
| 2000.0 | 71.3 | 71.1 | 71.1 | 71.2 | 71.3 | 70.3 | 59.4 |
| 4000.0 | 72.0 | 72.0 | 72.0 | 71.9 | 72.0 | 72.0 | 71.7 |
| 6000.0 | 74.2 | 74.1 | 73.9 | 73.7 | 73.4 | 72.9 | 71.4 |
| 8000.0 | 84.8 | 84.8 | 84.8 | 84.8 | 84.7 | 84.5 | 83.6 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 16.3 | 13.6 |
| 1000.0 | 13.9 | 11.8 |
| 2000.0 | 15.4 | 13.2 |
| 4000.0 | 18.2 | 15.7 |
| 6000.0 | 19.0 | 16.0 |
| 8000.0 | 18.9 | 15.3 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.5 | -2.0 | -21.8 | -18.9 | 1.1 | 0.6 | 1.2 |
| 5600.00 | -1.5 | -2.0 | -22.6 | -19.2 | 1.1 | 0.6 | 1.3 |
| 5700.00 | -1.4 | -2.0 | -22.2 | -19.1 | 1.1 | 0.6 | 1.2 |
| 5800.00 | -1.4 | -2.0 | -21.4 | -18.5 | 1.1 | 0.6 | 1.3 |
| 5900.00 | -1.4 | -2.0 | -20.0 | -17.7 | 1.1 | 0.6 | 1.5 |
| 6000.00 | -1.4 | -2.0 | -19.0 | -16.9 | 1.1 | 0.6 | 1.2 |
| 6100.00 | -1.4 | -2.0 | -17.6 | -15.8 | 1.1 | 0.6 | 0.9 |
| 6200.00 | -1.5 | -2.1 | -16.5 | -15.0 | 1.1 | 0.6 | 1.4 |
| 6300.00 | -1.5 | -2.1 | -15.3 | -14.0 | 1.1 | 0.6 | 1.6 |
| 6400.00 | -1.5 | -2.1 | -14.5 | -13.3 | 1.1 | 0.6 | 1.3 |
| 6500.00 | -1.6 | -2.2 | -13.5 | -12.5 | 1.1 | 0.6 | 1.6 |
| 6600.00 | -1.6 | -2.2 | -12.7 | -11.9 | 1.1 | 0.6 | 1.0 |
| 6700.00 | -1.7 | -2.3 | -11.8 | -11.1 | 1.1 | 0.6 | 1.4 |
| 6800.00 | -1.8 | -2.4 | -11.1 | -10.6 | 1.1 | 0.6 | 1.8 |
| 6900.00 | -1.9 | -2.5 | -10.4 | -9.9 | 1.1 | 0.6 | 1.4 |
| 7000.00 | -2.0 | -2.6 | -9.8 | -9.4 | 1.1 | 0.6 | 1.9 |
| 7100.00 | -2.1 | -2.7 | -9.1 | -8.8 | 1.1 | 0.6 | 1.6 |
| 7200.00 | -2.2 | -2.8 | -8.6 | -8.3 | 1.1 | 0.6 | 1.1 |
| 7300.00 | -2.4 | -3.0 | -8.0 | -7.8 | 1.1 | 0.6 | 1.3 |
| 7400.00 | -2.5 | -3.1 | -7.5 | -7.4 | 1.1 | 0.6 | 1.5 |
| 7500.00 | -2.7 | -3.3 | -7.0 | -6.9 | 1.1 | 0.6 | 1.8 |
| 7600.00 | -2.9 | -3.4 | -6.6 | -6.5 | 1.1 | 0.6 | 1.7 |
| 7700.00 | -3.1 | -3.6 | -6.1 | -6.1 | 1.1 | 0.6 | 1.3 |
| 7800.00 | -3.2 | -3.8 | -5.8 | -5.9 | 1.1 | 0.6 | 1.5 |
| 7900.00 | -3.4 | -4.0 | -5.4 | -5.5 | 1.1 | 0.5 | 2.4 |
| 8000.00 | -3.6 | -4.2 | -5.1 | -5.3 | 1.1 | 0.5 | 2.1 |
| 8100.00 | -3.8 | -4.3 | -4.8 | -4.9 | 1.1 | 0.5 | 2.2 |
| 8200.00 | -4.0 | -4.5 | -4.6 | -4.8 | 1.1 | 0.5 | 1.8 |
| 8300.00 | -4.2 | -4.7 | -4.2 | -4.4 | 1.1 | 0.5 | 1.9 |
| 8400.00 | -4.4 | -4.9 | -4.1 | -4.3 | 1.1 | 0.5 | 1.7 |
| 8500.00 | -4.6 | -5.1 | -3.8 | -4.0 | 1.1 | 0.5 | 1.7 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 17.9 | 15.3 |
| 6000.0 | 18.9 | 16.2 |
| 7000.0 | 20.7 | 17.4 |
| 8000.0 | 21.1 | 15.8 |
| 8500.0 | 20.0 | 14.5 |

| | FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.5 | 70.3 | 70.3 | 70.0 | 69.8 | 69.0 | 66.8 | 40.7 | 42.0 | 42.6 | 42.2 | 42.5 | 42.5 | 40.3 |
| 6000.0 | 77.0 | 77.1 | 77.1 | 77.0 | 76.8 | 76.5 | 76.1 | 40.6 | 41.1 | 41.5 | 42.7 | 42.8 | 42.5 | 36.6 |
| 7000.0 | 90.4 | 90.4 | 90.2 | 90.1 | 89.9 | 89.7 | 89.0 | 40.0 | 39.6 | 41.1 | 43.3 | 43.4 | 43.0 | 37.5 |
| 8000.0 | 84.9 | 85.0 | 84.9 | 84.9 | 84.9 | 84.7 | 84.8 | 41.2 | 41.7 | 42.2 | 40.9 | 41.1 | 40.9 | 40.0 |
| 8500.0 | 91.4 | 91.4 | 91.2 | 91.1 | 90.9 | 92.5 | 93.0 | 41.7 | 43.1 | 44.5 | 46.4 | 48.7 | 39.2 | 26.0 |

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 80 mA, $I_{EN}$ = 2.22 mA @ Temperature = - 45°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.6 | -33.4 | -1.8 | -1.8 | 1.4 | 0.9 | 19.4 | 21.3 | 3.6 | 32.9 | 33.2 | 31.4 | 32.4 | 31.9 | 31.6 | 31.1 |
| 300.00 | 20.4 | -28.6 | -5.8 | -5.8 | 1.2 | 0.8 | 19.6 | 21.2 | 1.8 | 31.5 | 31.1 | 32.3 | 32.5 | 32.2 | 31.8 | 31.1 |
| 400.00 | 21.9 | -27.0 | -12.2 | -12.2 | 1.1 | 0.7 | 20.1 | 21.7 | 1.3 | 34.6 | 31.5 | 33.3 | 33.6 | 33.4 | 33.1 | 32.4 |
| 500.00 | 22.2 | -26.8 | -17.9 | -17.9 | 1.1 | 0.6 | 20.5 | 21.9 | 1.2 | 31.9 | 31.8 | 33.1 | 34.5 | 34.0 | 33.6 | 33.1 |
| 600.00 | 22.3 | -26.8 | -17.6 | -17.6 | 1.1 | 0.6 | 20.9 | 22.1 | 1.1 | 36.5 | 34.8 | 35.4 | 35.0 | 34.6 | 34.3 | 33.8 |
| 700.00 | 22.3 | -26.7 | -15.8 | -15.8 | 1.1 | 0.6 | 21.0 | 22.4 | 1.0 | 33.1 | 33.3 | 34.3 | 34.0 | 33.6 | 33.2 | 32.6 |
| 800.00 | 22.3 | -26.8 | -14.9 | -14.9 | 1.1 | 0.6 | 21.1 | 22.5 | 1.0 | 33.2 | 33.4 | 34.6 | 34.7 | 34.2 | 33.9 | 33.5 |
| 900.00 | 22.2 | -26.9 | -14.4 | -14.4 | 1.1 | 0.6 | 21.2 | 22.6 | 1.0 | 33.0 | 34.2 | 34.5 | 34.3 | 34.0 | 33.8 | 33.3 |
| 1000.00 | 22.3 | -26.8 | -14.2 | -14.2 | 1.1 | 0.6 | 21.3 | 22.7 | 1.0 | 34.2 | 34.3 | 34.4 | 34.3 | 34.0 | 33.7 | 33.4 |
| 1100.00 | 22.3 | -26.9 | -14.2 | -14.2 | 1.1 | 0.6 | 21.2 | 22.6 | 1.0 | 34.2 | 34.4 | 33.8 | 34.0 | 34.0 | 33.6 | 33.2 |
| 1200.00 | 22.3 | -26.9 | -14.3 | -14.3 | 1.1 | 0.6 | 21.3 | 22.7 | 1.0 | 34.4 | 33.9 | 33.9 | 33.6 | 33.3 | 33.0 | 32.8 |
| 1300.00 | 22.3 | -26.9 | -14.5 | -14.5 | 1.1 | 0.6 | 21.3 | 22.7 | 1.0 | 33.7 | 32.5 | 33.4 | 33.2 | 33.0 | 32.7 | 32.5 |
| 1400.00 | 22.3 | -27.0 | -14.9 | -14.9 | 1.1 | 0.6 | 21.2 | 22.7 | 1.0 | 32.9 | 32.5 | 32.9 | 33.3 | 33.1 | 32.9 | 32.5 |
| 1500.00 | 22.3 | -27.0 | -15.3 | -15.3 | 1.1 | 0.7 | 21.1 | 22.8 | 1.0 | 30.7 | 32.3 | 32.7 | 32.4 | 32.1 | 31.9 | 31.5 |
| 1600.00 | 22.3 | -27.0 | -15.6 | -15.6 | 1.1 | 0.7 | 21.2 | 22.8 | 1.0 | 32.1 | 32.1 | 32.5 | 32.4 | 32.1 | 31.9 | 31.6 |
| 1700.00 | 22.3 | -27.1 | -15.7 | -15.7 | 1.1 | 0.7 | 21.3 | 22.9 | 1.0 | 31.9 | 31.1 | 32.6 | 32.4 | 32.3 | 32.0 | 31.7 |
| 1800.00 | 22.4 | -27.0 | -16.1 | -16.1 | 1.1 | 0.7 | 21.0 | 22.8 | 1.1 | 31.8 | 32.2 | 32.7 | 31.8 | 32.0 | 31.7 | 31.4 |
| 1900.00 | 22.4 | -27.1 | -16.3 | -16.3 | 1.1 | 0.7 | 21.0 | 22.8 | 1.1 | 32.3 | 33.0 | 31.6 | 31.4 | 31.4 | 31.1 | 30.9 |
| 2000.00 | 22.4 | -27.1 | -16.3 | -16.3 | 1.1 | 0.7 | 20.8 | 22.6 | 1.1 | 32.6 | 32.0 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 |
| 2100.00 | 22.4 | -27.2 | -16.0 | -16.0 | 1.1 | 0.7 | 21.0 | 22.8 | 1.1 | 31.8 | 31.1 | 31.9 | 31.7 | 31.5 | 31.3 | 31.0 |
| 2200.00 | 22.4 | -27.2 | -15.8 | -15.8 | 1.1 | 0.7 | 20.9 | 22.8 | 1.1 | 33.4 | 30.9 | 31.5 | 31.7 | 31.5 | 31.4 | 31.1 |
| 2300.00 | 22.4 | -27.3 | -15.4 | -15.4 | 1.2 | 0.7 | 20.9 | 23.0 | 1.2 | 33.7 | 31.6 | 31.7 | 31.5 | 31.6 | 31.3 | 31.1 |
| 2400.00 | 22.4 | -27.4 | -14.9 | -14.9 | 1.2 | 0.7 | 20.7 | 23.1 | 1.2 | 29.1 | 30.0 | 29.6 | 29.6 | 29.7 | 29.3 | 28.9 |
| 2500.00 | 22.4 | -27.5 | -14.7 | -14.7 | 1.2 | 0.7 | 20.7 | 23.2 | 1.2 | 29.1 | 29.4 | 29.9 | 29.8 | 29.5 | 29.2 | 28.9 |
| 2600.00 | 22.4 | -27.5 | -14.3 | -14.3 | 1.2 | 0.7 | 20.4 | 23.3 | 1.2 | 31.0 | 30.7 | 29.6 | 29.8 | 29.5 | 29.3 | 29.0 |
| 2700.00 | 22.4 | -27.7 | -13.9 | -13.9 | 1.2 | 0.7 | 20.0 | 22.9 | 1.2 | 29.1 | 30.5 | 30.2 | 30.1 | 29.8 | 29.5 | 29.1 |
| 2800.00 | 22.4 | -27.8 | -13.6 | -13.6 | 1.2 | 0.7 | 19.9 | 22.6 | 1.2 | 30.2 | 29.3 | 29.2 | 29.3 | 29.1 | 28.8 | 28.4 |
| 2900.00 | 22.3 | -27.8 | -13.1 | -13.1 | 1.2 | 0.8 | 19.6 | 22.3 | 1.3 | 32.0 | | 29.6 | 29.6 | 29.4 | 29.1 | 28.8 |
| 3000.00 | 22.3 | -28.0 | -12.6 | -12.6 | 1.2 | 0.8 | 19.8 | 22.6 | 1.3 | 27.9 | 28.5 | 28.5 | 28.2 | 28.0 | 27.7 | 27.2 |
| 3100.00 | 22.3 | -27.9 | -12.1 | -12.1 | 1.2 | 0.8 | 19.7 | 22.9 | 1.3 | 29.8 | 28.6 | 28.3 | 28.2 | 27.9 | 27.6 | 27.2 |
| 3200.00 | 22.3 | -28.0 | -11.8 | -11.8 | 1.2 | 0.8 | 19.7 | 22.9 | 1.3 | 28.6 | 28.3 | 28.6 | 28.7 | 28.6 | 28.3 | 28.0 |
| 3300.00 | 22.3 | -28.0 | -11.6 | -11.6 | 1.2 | 0.8 | 19.7 | 22.8 | 1.2 | 28.3 | 28.7 | 28.4 | 28.3 | 28.0 | 27.8 | 27.4 |
| 3400.00 | 22.3 | -28.0 | -11.4 | -11.4 | 1.2 | 0.8 | 19.5 | 22.5 | 1.2 | 28.1 | 30.0 | 28.4 | 28.7 | 28.5 | 28.3 | 28.0 |
| 3500.00 | 22.3 | -28.1 | -11.4 | -11.4 | 1.2 | 0.8 | 19.6 | 22.6 | 1.3 | 28.3 | 28.1 | 28.1 | 28.1 | 28.0 | 27.8 | 27.5 |
| 3600.00 | 22.3 | -28.1 | -11.4 | -11.4 | 1.2 | 0.8 | 19.6 | 22.6 | 1.2 | 28.1 | 28.2 | 28.2 | 28.3 | 28.1 | 27.9 | 27.7 |
| 3700.00 | 22.3 | -28.1 | -11.4 | -11.4 | 1.2 | 0.8 | 19.5 | 22.9 | 1.2 | 29.4 | 29.6 | 29.3 | 29.4 | 29.2 | 29.2 | 28.9 |
| 3800.00 | 22.3 | -28.1 | -11.5 | -11.5 | 1.2 | 0.8 | 19.7 | 23.0 | 1.2 | 28.7 | 28.3 | 28.9 | 28.8 | 28.7 | 28.6 | 28.4 |
| 3900.00 | 22.4 | -28.1 | -11.6 | -11.6 | 1.2 | 0.8 | 20.0 | 23.0 | 1.2 | 28.7 | 28.5 | 28.8 | 28.4 | 28.5 | 28.4 | 28.1 |
| 4000.00 | 22.4 | -28.2 | -11.7 | -11.7 | 1.2 | 0.8 | 20.2 | 23.1 | 1.2 | 28.9 | 28.9 | 29.1 | 28.9 | 28.8 | 28.6 | 28.3 |
| 4100.00 | 22.4 | -28.2 | -12.0 | -12.0 | 1.2 | 0.8 | 20.5 | 23.3 | 1.2 | 29.1 | 28.2 | 28.4 | 28.4 | 28.2 | 28.1 | 27.8 |
| 4200.00 | 22.5 | -28.2 | -12.1 | -12.1 | 1.2 | 0.8 | 20.6 | 23.2 | 1.2 | 29.2 | 28.6 | 28.8 | 28.6 | 28.6 | 28.3 | 28.1 |
| 4300.00 | 22.5 | -28.3 | -12.5 | -12.5 | 1.2 | 0.8 | 20.5 | 23.3 | 1.2 | 27.6 | 29.1 | 29.0 | 28.7 | 28.6 | 28.5 | 28.2 |
| 4400.00 | 22.5 | -28.3 | -13.0 | -13.0 | 1.2 | 0.8 | 20.4 | 23.5 | 1.1 | 28.7 | 29.1 | 28.5 | 28.8 | 28.5 | 28.4 | 28.1 |
| 4500.00 | 22.6 | -28.3 | -13.3 | -13.3 | 1.2 | 0.8 | 20.3 | 23.8 | 1.2 | 28.7 | 28.3 | 28.3 | 28.4 | 28.3 | 28.1 | 27.7 |
| 4600.00 | 22.6 | -28.4 | -13.9 | -13.9 | 1.2 | 0.8 | 19.9 | 24.0 | 1.1 | 28.0 | 28.5 | 28.1 | 28.2 | 28.0 | 27.8 | 27.4 |
| 4700.00 | 22.7 | -28.4 | -14.4 | -14.4 | 1.2 | 0.8 | 20.1 | 23.7 | 1.2 | 28.0 | 28.1 | 28.1 | 28.2 | 28.1 | 27.9 | 27.6 |
| 4800.00 | 22.7 | -28.4 | -14.8 | -14.8 | 1.2 | 0.8 | 20.3 | 23.4 | 1.2 | 27.8 | 28.6 | 28.3 | 28.5 | 28.4 | 28.3 | 28.1 |
| 4900.00 | 22.7 | -28.5 | -15.8 | -15.8 | 1.2 | 0.8 | 20.0 | 23.3 | 1.1 | 27.5 | 27.5 | 27.4 | 27.3 | 27.3 | 27.1 | 26.8 |
| 5000.00 | 22.8 | -28.5 | -16.2 | -16.2 | 1.2 | 0.8 | 20.1 | 23.3 | 1.3 | 27.4 | 26.9 | 27.0 | 27.0 | 26.8 | 26.6 | 26.4 |
| 5100.00 | 22.9 | -28.7 | -17.2 | -17.2 | 1.3 | 0.8 | 20.5 | 23.0 | 1.1 | 27.0 | 26.7 | 26.8 | 26.9 | 26.9 | 26.9 | 26.8 |
| 5200.00 | 22.8 | -28.6 | -18.5 | -18.5 | 1.3 | 0.8 | 20.5 | 22.9 | 1.1 | 27.4 | 27.1 | 27.3 | 27.4 | 27.5 | 27.5 | 27.6 |
| 5300.00 | 23.0 | -28.7 | -18.8 | -18.8 | 1.3 | 0.8 | 20.6 | 23.3 | 1.2 | 28.3 | 28.0 | 27.9 | 27.7 | 27.9 | 27.9 | 27.9 |
| 5400.00 | 22.9 | -28.8 | -20.6 | -20.6 | 1.3 | 0.8 | 20.3 | 23.6 | 1.2 | 27.1 | 27.3 | 27.1 | 27.2 | 27.2 | 27.1 | 27.0 |
| 5500.00 | 23.0 | -28.8 | -21.5 | -21.5 | 1.3 | 0.8 | 19.8 | 23.6 | 1.2 | 27.1 | 27.0 | 26.9 | 26.9 | 26.9 | 26.8 | 26.5 |
| 5600.00 | 23.1 | -28.8 | -21.0 | -21.0 | 1.3 | 0.8 | 19.0 | 23.5 | 1.2 | 26.5 | 26.9 | 26.8 | 26.7 | 26.6 | 26.5 | 26.1 |
| 5700.00 | 23.0 | -29.0 | -23.2 | -23.2 | 1.3 | 0.8 | 18.7 | 23.3 | 1.2 | 26.5 | 26.5 | 26.7 | 26.7 | 26.6 | 26.4 | 26.0 |
| 5800.00 | 23.1 | -28.8 | -22.0 | -22.0 | 1.3 | 0.8 | 18.7 | 23.1 | 1.2 | 25.8 | 26.3 | 26.2 | 26.1 | 26.0 | 25.8 | 25.4 |
| 5900.00 | 23.1 | -29.1 | -20.0 | -20.0 | 1.3 | 0.8 | 18.7 | 23.1 | 1.2 | 26.2 | 25.8 | 25.8 | 25.8 | 25.8 | 25.6 | 25.3 |
| 6000.00 | 23.0 | -29.1 | -20.9 | -20.9 | 1.3 | 0.8 | 17.9 | 23.0 | 1.3 | 24.5 | 24.7 | 24.8 | 24.8 | 24.6 | 24.4 | 24.3 |
| 6100.00 | 23.2 | -29.0 | -17.9 | -17.9 | 1.3 | 0.8 | 18.1 | 22.7 | 1.2 | 24.9 | 24.7 | 24.8 | 24.7 | 24.7 | 24.7 | 25.0 |
| 6200.00 | 23.1 | -29.4 | -16.2 | -16.2 | 1.3 | 0.8 | 18.1 | 22.2 | 1.3 | 24.3 | 24.2 | 24.2 | 24.2 | 24.3 | 24.4 | 24.8 |
| 6300.00 | 23.1 | -29.3 | -15.9 | -15.9 | 1.3 | 0.8 | 18.0 | 21.4 | 1.3 | 24.5 | 24.3 | 24.5 | 24.6 | 24.7 | 24.9 | 25.3 |
| 6400.00 | 23.2 | -29.5 | -13.7 | -13.7 | 1.3 | 0.8 | 18.0 | 20.7 | 1.3 | 23.7 | 23.8 | 23.8 | 23.9 | 24.0 | 24.3 | 24.8 |
| 6500.00 | 23.0 | -29.9 | -12.9 | -12.9 | 1.3 | 0.8 | 18.1 | 20.6 | 1.4 | 24.0 | 23.7 | 24.0 | 24.1 | 24.2 | 24.4 | 24.7 |
| 6600.00 | 23.1 | -29.7 | -11.8 | -11.8 | 1.3 | 0.8 | 18.4 | 20.7 | 1.4 | 24.1 | 24.4 | 24.5 | 24.6 | 24.7 | 24.9 | 25.1 |
| 6700.00 | 23.1 | -30.1 | -10.0 | -10.0 | 1.3 | 0.8 | 18.2 | 20.5 | 1.4 | 23.6 | 23.9 | 23.9 | 24.0 | 24.1 | 24.3 | 24.4 |
| 6800.00 | 22.8 | -30.4 | -9.5 | -9.5 | 1.3 | 0.9 | 18.3 | 20.4 | 1.4 | 23.8 | 23.8 | 23.9 | 24.1 | 24.2 | 24.3 | 24.4 |
| 6900.00 | 22.9 | -30.7 | -8.3 | -8.3 | 1.3 | 0.9 | 18.2 | 20.3 | 1.4 | 23.2 | 23.4 | 23.6 | 23.7 | 23.8 | 24.0 | 24.2 |
| 7000.00 | 22.7 | -31.3 | -7.2 | -7.2 | 1.4 | 0.9 | 18.6 | 20.5 | 1.5 | 22.2 | 22.6 | 22.6 | 22.8 | 22.9 | 23.0 | 23.2 |
| 7100.00 | 22.3 | -31.9 | -6.9 | -6.9 | 1.4 | 0.9 | 18.7 | 20.5 | 1.5 | 22.6 | 22.6 | 22.9 | 22.9 | 23.0 | 23.1 | 23.2 |
| 7200.00 | 22.2 | -32.4 | -6.0 | -6.0 | 1.5 | 0.9 | 18.6 | 20.3 | 1.5 | 23.1 | 22.9 | 22.9 | 23.1 | 23.2 | 23.3 | 23.4 |
| 7300.00 | 21.7 | -33.5 | -5.3 | -5.3 | 1.6 | 1.0 | 18.7 | 20.1 | 1.6 | 22.0 | 22.1 | 22.1 | 22.3 | 22.4 | 22.4 | 22.7 |
| 7400.00 | 21.2 | -34.3 | -5.1 | -5.1 | 1.7 | 1.0 | 18.6 | 19.8 | 1.6 | 21.9 | 22.0 | 22.1 | 22.3 | 22.4 | 22.4 | 22.7 |
| 7500.00 | 20.7 | -35.3 | -4.4 | -4.4 | 1.8 | 1.0 | 18.4 | 19.4 | 1.6 | 20.8 | 20.8 | 20.9 | 21.0 | 21.0 | 21.1 | 21.9 |
| 7600.00 | 19.8 | -37.5 | -4.3 | -4.3 | 2.3 | 1.0 | 18.4 | 19.2 | 1.6 | 21.4 | 21.4 | 21.6 | 21.7 | 21.6 | 21.5 | 22.0 |
| 7700.00 | 19.1 | -38.5 | -4.3 | -4.3 | 2.6 | 1.0 | 18.3 | 19.0 | 1.7 | 21.0 | 21.0 | 21.1 | 21.2 | 21.1 | 21.1 | 21.9 |
| 7800.00 | 18.4 | -40.9 | -3.9 | -3.9 | 3.3 | 1.0 | 17.6 | 18.2 | 1.7 | 20.2 | 20.3 | 20.3 | 20.4 | 20.3 | 20.5 | 21.8 |
| 7900.00 | 17.2 | -43.1 | -4.3 | -4.3 | 4.8 | 0.9 | 16.8 | 17.3 | 1.8 | 19.6 | 19.8 | 19.8 | 19.8 | 19.6 | 20.2 | 21.9 |
| 8000.00 | 16.4 | -45.3 | -3.9 | -3.9 | 6.1 | 0.9 | 15.8 | 16.3 | 1.8 | 18.0 | 18.1 | 18.0 | 17.9 | 18.3 | 19.7 | 22.2 |

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 80 mA, $I_{EN}$ = 2.22 mA @ Temperature = - 45°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 40.7 | 40.5 | 40.5 | 40.4 | 40.2 | 40.0 | 39.5 |
| 1000.0 | 38.7 | 38.7 | 38.6 | 38.6 | 38.5 | 38.4 | 38.2 |
| 2000.0 | 36.7 | 36.6 | 36.5 | 36.5 | 36.5 | 36.5 | 36.3 |
| 4000.0 | 38.1 | 38.1 | 38.2 | 38.3 | 38.5 | 38.8 | 39.3 |
| 6000.0 | 28.5 | 28.5 | 28.4 | 28.4 | 28.4 | 28.4 | 28.5 |
| 8000.0 | 34.3 | 34.3 | 34.4 | 34.6 | 35.3 | 36.5 | 38.8 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 88 mA, $I_{EN}$ = 2.21 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 22.4 | -29.7 | -11.3 | -10.2 | 1.3 | 0.7 | 19.6 | 23.4 | 1.1 | 28.0 | 27.0 | 27.6 | 27.6 | 27.7 | 27.6 | 27.3 |
| 5600.00 | 22.6 | -29.7 | -11.1 | -10.4 | 1.3 | 0.7 | 19.2 | 23.4 | 1.1 | 26.1 | 26.4 | 26.4 | 26.4 | 26.4 | 26.2 | 25.7 |
| 5700.00 | 22.5 | -29.6 | -11.6 | -10.7 | 1.3 | 0.7 | 18.9 | 23.3 | 1.1 | 26.4 | 27.1 | 26.6 | 26.6 | 26.6 | 26.5 | 26.1 |
| 5800.00 | 22.7 | -29.7 | -11.3 | -10.8 | 1.3 | 0.7 | 18.8 | 23.3 | 1.1 | 26.3 | 26.5 | 26.5 | 26.5 | 26.5 | 26.4 | 26.0 |
| 5900.00 | 22.7 | -29.6 | -11.8 | -11.2 | 1.3 | 0.7 | 18.1 | 23.2 | 1.1 | 25.4 | 26.0 | 26.0 | 25.8 | 25.8 | 25.6 | 25.1 |
| 6000.00 | 22.8 | -29.7 | -11.4 | -11.3 | 1.3 | 0.7 | 17.2 | 22.8 | 1.1 | 23.9 | 24.2 | 24.1 | 24.1 | 24.0 | 23.6 | 23.1 |
| 6100.00 | 22.8 | -29.6 | -11.9 | -11.7 | 1.3 | 0.8 | 18.3 | 22.8 | 1.1 | 24.8 | 24.8 | 24.6 | 24.7 | 24.8 | 24.6 | 24.5 |
| 6200.00 | 23.0 | -29.7 | -11.6 | -11.7 | 1.3 | 0.8 | 18.5 | 22.6 | 1.1 | 24.1 | 24.3 | 24.0 | 24.1 | 24.1 | 24.1 | 24.5 |
| 6300.00 | 23.0 | -29.7 | -12.0 | -12.2 | 1.3 | 0.8 | 19.1 | 22.6 | 1.1 | 24.7 | 25.1 | 25.0 | 25.0 | 25.2 | 25.4 | 26.0 |
| 6400.00 | 23.1 | -30.0 | -11.7 | -12.1 | 1.3 | 0.8 | 19.2 | 22.4 | 1.1 | 24.8 | 25.0 | 24.8 | 25.1 | 25.3 | 25.6 | 26.3 |
| 6500.00 | 23.1 | -29.8 | -12.2 | -12.7 | 1.3 | 0.8 | 19.1 | 22.1 | 1.1 | 24.7 | 25.2 | 25.1 | 25.3 | 25.5 | 25.8 | 26.4 |
| 6600.00 | 23.2 | -30.1 | -12.0 | -12.6 | 1.3 | 0.8 | 19.5 | 22.1 | 1.1 | 25.1 | 25.1 | 25.3 | 25.5 | 25.7 | 26.1 | 26.5 |
| 6700.00 | 23.2 | -30.0 | -12.7 | -13.3 | 1.3 | 0.8 | 19.4 | 21.8 | 1.1 | 24.9 | 25.2 | 25.2 | 25.4 | 25.8 | 26.1 | 26.7 |
| 6800.00 | 23.3 | -30.2 | -12.6 | -13.3 | 1.3 | 0.8 | 19.5 | 21.7 | 1.2 | 25.5 | 25.8 | 25.7 | 25.9 | 26.2 | 26.6 | 27.1 |
| 6900.00 | 23.3 | -30.2 | -13.2 | -14.1 | 1.3 | 0.8 | 19.7 | 21.7 | 1.2 | 25.7 | 26.2 | 25.9 | 26.2 | 26.6 | 27.0 | 27.6 |
| 7000.00 | 23.4 | -30.5 | -13.2 | -14.1 | 1.3 | 0.8 | 19.8 | 21.7 | 1.2 | 25.4 | 25.9 | 25.6 | 25.8 | 26.2 | 26.6 | 27.2 |
| 7100.00 | 23.4 | -30.5 | -14.2 | -15.1 | 1.4 | 0.8 | 19.8 | 21.6 | 1.2 | 24.9 | 25.5 | 25.9 | 26.1 | 26.5 | 26.9 | 27.5 |
| 7200.00 | 23.5 | -30.8 | -14.3 | -15.1 | 1.4 | 0.8 | 20.0 | 21.8 | 1.3 | 25.7 | 25.7 | 25.8 | 26.1 | 26.5 | 27.0 | 27.6 |
| 7300.00 | 23.5 | -30.7 | -15.7 | -16.4 | 1.4 | 0.8 | 20.0 | 21.7 | 1.3 | 24.8 | 25.2 | 25.4 | 25.7 | 26.2 | 26.6 | 27.4 |
| 7400.00 | 23.6 | -31.1 | -16.0 | -16.6 | 1.4 | 0.8 | 20.3 | 21.9 | 1.3 | 25.2 | 25.4 | 25.4 | 25.7 | 26.2 | 26.8 | 27.6 |
| 7500.00 | 23.6 | -31.2 | -17.9 | -18.4 | 1.4 | 0.8 | 19.8 | 21.4 | 1.4 | 25.1 | 25.6 | 25.5 | 25.9 | 26.2 | 26.9 | 27.8 |
| 7600.00 | 23.7 | -31.7 | -18.0 | -18.3 | 1.5 | 0.9 | 19.8 | 21.4 | 1.5 | 24.9 | 25.3 | 25.3 | 25.7 | 26.1 | 26.6 | 27.4 |
| 7700.00 | 23.5 | -31.8 | -20.8 | -20.9 | 1.5 | 0.9 | 20.1 | 21.5 | 1.5 | 24.0 | 24.2 | 24.2 | 24.7 | 25.1 | 25.8 | 26.7 |
| 7800.00 | 23.6 | -32.5 | -19.3 | -21.0 | 1.6 | 0.9 | 19.6 | 21.1 | 1.6 | 24.6 | 24.7 | 25.1 | 25.4 | 26.0 | 26.6 | 27.6 |
| 7900.00 | 23.4 | -32.5 | -21.5 | -26.2 | 1.7 | 0.9 | 19.3 | 20.7 | 1.7 | 24.6 | 24.9 | 25.0 | 25.3 | 25.9 | 26.6 | 27.6 |
| 8000.00 | 23.3 | -33.5 | -17.3 | -25.1 | 1.8 | 0.9 | 18.8 | 20.3 | 1.8 | 23.7 | 24.1 | 24.3 | 24.8 | 25.4 | 26.3 | 27.6 |
| 8100.00 | 23.1 | -33.7 | -17.5 | -31.2 | 1.9 | 0.9 | 18.8 | 20.2 | 1.9 | 23.7 | 24.0 | 24.2 | 24.6 | 25.1 | 26.0 | 27.2 |
| 8200.00 | 22.7 | -35.3 | -13.0 | -21.0 | 2.2 | 1.0 | 18.5 | 19.8 | 2.0 | 22.5 | | 23.2 | 23.8 | 24.4 | 25.5 | 26.5 |
| 8300.00 | 22.5 | -35.1 | -13.0 | -19.9 | 2.2 | 1.0 | 18.5 | 19.7 | 2.1 | 22.9 | 23.1 | 23.5 | 24.0 | 24.7 | 25.7 | 26.9 |
| 8400.00 | 21.6 | -37.7 | -9.4 | -14.1 | 2.9 | 1.1 | 18.2 | 19.3 | 2.3 | 22.9 | 22.7 | 23.5 | 23.9 | 24.5 | 25.6 | 26.9 |
| 8500.00 | 21.5 | -37.3 | -9.1 | -13.2 | 2.8 | 1.1 | 17.8 | 18.9 | 2.4 | 21.7 | 21.7 | 21.9 | 22.5 | 23.3 | 24.5 | 25.0 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 35.7 | 35.7 | 35.6 | 35.5 | 35.5 | 35.6 | 35.7 |
| 6000.0 | 30.4 | 30.3 | 30.2 | 30.1 | 30.0 | 29.9 | 29.9 |
| 7000.0 | 40.2 | 40.1 | 40.0 | 39.9 | 39.8 | 39.9 | 40.2 |
| 8000.0 | 49.0 | 48.9 | 48.8 | 48.7 | 48.6 | 48.7 | 49.2 |
| 8500.0 | 58.3 | 58.1 | 58.0 | 58.0 | 57.9 | 58.3 | 59.3 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.6 | -3.7 | 3.6 | -8.3 | 1.1 | 0.8 | 2.5 |
| 300.00 | -2.2 | -2.3 | -6.6 | -11.1 | 1.0 | 0.6 | 1.3 |
| 400.00 | -1.6 | -1.7 | -9.2 | -13.3 | 1.0 | 0.5 | 1.0 |
| 500.00 | -1.3 | -1.4 | -11.9 | -15.2 | 1.0 | 0.4 | 0.9 |
| 600.00 | -1.2 | -1.2 | -14.8 | -17.0 | 1.0 | 0.4 | 1.0 |
| 700.00 | -1.1 | -1.1 | -18.1 | -18.4 | 1.0 | 0.4 | 0.8 |
| 800.00 | -1.1 | -1.1 | -22.3 | -18.8 | 1.0 | 0.4 | 0.8 |
| 900.00 | -1.1 | -1.1 | -28.0 | -18.6 | 1.0 | 0.4 | 0.7 |
| 1000.00 | -1.0 | -1.1 | -36.1 | -18.2 | 1.0 | 0.4 | 0.6 |
| 1100.00 | -1.0 | -1.1 | -28.7 | -17.8 | 1.0 | 0.4 | 0.7 |
| 1200.00 | -1.0 | -1.1 | -24.0 | -17.3 | 1.0 | 0.4 | 0.7 |
| 1300.00 | -1.0 | -1.1 | -21.1 | -16.8 | 1.0 | 0.4 | 0.8 |
| 1400.00 | -1.1 | -1.2 | -19.1 | -16.2 | 1.0 | 0.4 | 0.7 |
| 1500.00 | -1.1 | -1.2 | -17.6 | -15.7 | 1.0 | 0.4 | 0.7 |
| 1600.00 | -1.2 | -1.2 | -16.5 | -15.6 | 1.0 | 0.4 | 0.9 |
| 1700.00 | -1.2 | -1.3 | -15.7 | -15.6 | 1.0 | 0.4 | 0.7 |
| 1800.00 | -1.2 | -1.3 | -15.0 | -15.6 | 1.0 | 0.4 | 1.1 |
| 1900.00 | -1.2 | -1.4 | -14.5 | -15.3 | 1.0 | 0.4 | 0.8 |
| 2000.00 | -1.3 | -1.4 | -14.1 | -15.2 | 1.0 | 0.5 | 1.0 |
| 2100.00 | -1.3 | -1.4 | -13.9 | -15.5 | 1.0 | 0.5 | 1.1 |
| 2200.00 | -1.3 | -1.5 | -13.7 | -15.7 | 1.0 | 0.5 | 0.9 |
| 2300.00 | -1.3 | -1.5 | -13.6 | -16.0 | 1.0 | 0.5 | 1.0 |
| 2400.00 | -1.4 | -1.5 | -13.6 | -16.4 | 1.0 | 0.5 | 1.3 |
| 2500.00 | -1.4 | -1.6 | -13.6 | -16.9 | 1.0 | 0.5 | 1.4 |
| 2600.00 | -1.4 | -1.6 | -13.7 | -17.6 | 1.0 | 0.5 | 1.5 |
| 2700.00 | -1.4 | -1.7 | -13.9 | -18.5 | 1.0 | 0.6 | 1.4 |
| 2800.00 | -1.4 | -1.8 | -14.2 | -19.6 | 1.1 | 0.6 | 1.6 |
| 2900.00 | -1.4 | -1.8 | -14.4 | -20.6 | 1.1 | 0.6 | 1.5 |
| 3000.00 | -1.4 | -1.8 | -14.5 | -21.9 | 1.1 | 0.6 | 1.7 |
| 3100.00 | -1.4 | -1.8 | -14.6 | -23.8 | 1.1 | 0.6 | 1.1 |
| 3200.00 | -1.5 | -1.8 | -14.6 | -26.2 | 1.1 | 0.6 | 1.2 |
| 3300.00 | -1.5 | -1.8 | -14.6 | -28.9 | 1.1 | 0.6 | 1.2 |
| 3400.00 | -1.5 | -1.7 | -14.7 | -32.3 | 1.1 | 0.6 | 1.8 |
| 3500.00 | -1.5 | -1.7 | -14.7 | -33.1 | 1.1 | 0.6 | 1.2 |
| 3600.00 | -1.5 | -1.7 | -14.6 | -28.6 | 1.1 | 0.6 | 1.4 |
| 3700.00 | -1.5 | -1.7 | -14.5 | -25.5 | 1.1 | 0.6 | 1.2 |
| 3800.00 | -1.5 | -1.8 | -14.3 | -23.2 | 1.1 | 0.6 | 1.1 |
| 3900.00 | -1.5 | -1.8 | -14.1 | -21.3 | 1.1 | 0.6 | 1.4 |
| 4000.00 | -1.6 | -1.8 | -13.8 | -19.5 | 1.1 | 0.6 | 1.5 |
| 4100.00 | -1.6 | -1.8 | -13.4 | -18.1 | 1.1 | 0.6 | 1.1 |
| 4200.00 | -1.6 | -1.8 | -13.1 | -17.0 | 1.1 | 0.6 | 1.6 |
| 4300.00 | -1.6 | -1.9 | -12.8 | -16.0 | 1.1 | 0.6 | 1.2 |
| 4400.00 | -1.6 | -1.9 | -12.5 | -15.1 | 1.1 | 0.6 | 1.3 |
| 4500.00 | -1.7 | -1.9 | -12.2 | -14.5 | 1.1 | 0.6 | 1.5 |
| 4600.00 | -1.7 | -2.0 | -12.0 | -13.9 | 1.1 | 0.6 | 1.2 |
| 4700.00 | -1.7 | -2.0 | -11.7 | -13.3 | 1.1 | 0.6 | 1.7 |
| 4800.00 | -1.7 | -2.0 | -11.5 | -13.0 | 1.1 | 0.6 | 1.3 |
| 4900.00 | -1.7 | -2.1 | -11.4 | -12.7 | 1.1 | 0.6 | 1.1 |
| 5000.00 | -1.7 | -2.1 | -11.2 | -12.3 | 1.1 | 0.6 | 1.1 |
| 5100.00 | -1.7 | -2.1 | -11.1 | -12.1 | 1.1 | 0.6 | 1.1 |
| 5200.00 | -1.7 | -2.1 | -11.0 | -11.9 | 1.1 | 0.6 | 1.6 |
| 5300.00 | -1.7 | -2.2 | -11.0 | -11.8 | 1.1 | 0.6 | 1.7 |
| 5400.00 | -1.7 | -2.2 | -11.0 | -11.7 | 1.1 | 0.6 | 1.2 |
| 5500.00 | -1.7 | -2.2 | -10.9 | -11.4 | 1.1 | 0.5 | 1.7 |
| 5600.00 | -1.7 | -2.2 | -11.0 | -11.4 | 1.1 | 0.5 | 1.5 |
| 5700.00 | -1.7 | -2.2 | -11.0 | -11.4 | 1.1 | 0.6 | 1.5 |
| 5800.00 | -1.7 | -2.1 | -11.1 | -11.3 | 1.1 | 0.5 | 1.6 |
| 5900.00 | -1.7 | -2.2 | -11.4 | -11.5 | 1.1 | 0.5 | 1.6 |
| 6000.00 | -1.7 | -2.1 | -11.4 | -11.3 | 1.1 | 0.5 | 1.6 |
| 6100.00 | -1.6 | -2.1 | -11.7 | -11.5 | 1.1 | 0.5 | 1.2 |
| 6200.00 | -1.6 | -2.1 | -11.9 | -11.7 | 1.1 | 0.5 | 0.8 |
| 6300.00 | -1.6 | -2.1 | -12.0 | -11.6 | 1.1 | 0.5 | 1.2 |
| 6400.00 | -1.6 | -2.1 | -12.4 | -11.9 | 1.1 | 0.5 | 1.2 |
| 6500.00 | -1.6 | -2.1 | -12.5 | -11.9 | 1.1 | 0.5 | 1.4 |
| 6600.00 | -1.6 | -2.1 | -12.6 | -11.8 | 1.1 | 0.5 | 1.8 |
| 6700.00 | -1.5 | -2.1 | -12.9 | -12.1 | 1.1 | 0.5 | 0.9 |
| 6800.00 | -1.6 | -2.1 | -13.0 | -12.1 | 1.1 | 0.5 | 1.0 |
| 6900.00 | -1.6 | -2.1 | -13.1 | -12.1 | 1.1 | 0.5 | 0.9 |
| 7000.00 | -1.6 | -2.1 | -13.2 | -12.1 | 1.1 | 0.5 | 0.8 |
| 7100.00 | -1.6 | -2.2 | -13.0 | -11.9 | 1.1 | 0.5 | 1.2 |
| 7200.00 | -1.6 | -2.2 | -12.9 | -11.9 | 1.1 | 0.5 | 1.9 |
| 7300.00 | -1.7 | -2.2 | -12.8 | -11.7 | 1.1 | 0.6 | 0.7 |
| 7400.00 | -1.8 | -2.3 | -12.4 | -11.3 | 1.1 | 0.6 | 1.3 |
| 7500.00 | -1.8 | -2.3 | -12.1 | -11.2 | 1.1 | 0.6 | 2.0 |
| 7600.00 | -1.9 | -2.4 | -11.8 | -10.9 | 1.1 | 0.6 | 1.4 |
| 7700.00 | -2.0 | -2.5 | -11.1 | -10.4 | 1.1 | 0.6 | 2.0 |
| 7800.00 | -2.1 | -2.6 | -10.8 | -10.2 | 1.1 | 0.6 | 1.5 |
| 7900.00 | -2.3 | -2.8 | -10.3 | -9.6 | 1.1 | 0.6 | 2.3 |
| 8000.00 | -2.3 | -2.8 | -9.6 | -9.1 | 1.1 | 0.6 | 1.9 |

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 43.1 | 43.3 | 43.7 | 43.8 | 41.2 | 32.4 | 23.6 |
| 1000.0 | 41.9 | 43.6 | 45.2 | 42.7 | 32.2 | 22.4 | 16.5 |
| 2000.0 | 43.2 | 44.9 | 46.2 | 45.9 | 41.2 | 30.6 | 20.1 |
| 4000.0 | 41.2 | 42.4 | 43.5 | 44.2 | 44.3 | 42.9 | 34.8 |
| 6000.0 | 43.6 | 44.3 | 45.2 | 46.1 | 46.4 | 43.5 | 32.6 |
| 8000.0 | 42.7 | 43.6 | 44.7 | 45.6 | 45.7 | 43.3 | 33.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.6 | 70.5 | 70.3 | 70.0 | 69.6 | 68.2 | 59.3 |
| 1000.0 | 70.9 | 71.1 | 71.3 | 71.7 | 71.8 | 63.7 | 52.1 |
| 2000.0 | 70.8 | 70.7 | 70.7 | 70.9 | 70.9 | 69.7 | 58.7 |
| 4000.0 | 71.9 | 71.8 | 71.8 | 71.8 | 71.9 | 71.9 | 71.6 |
| 6000.0 | 74.2 | 74.2 | 74.1 | 73.8 | 73.6 | 73.0 | 71.4 |
| 8000.0 | 84.8 | 84.7 | 84.7 | 84.7 | 84.6 | 84.4 | 83.4 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 16.3 | 13.5 |
| 1000.0 | 13.7 | 11.8 |
| 2000.0 | 15.4 | 13.1 |
| 4000.0 | 18.0 | 15.6 |
| 6000.0 | 18.8 | 15.9 |
| 8000.0 | 18.7 | 15.2 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.5 | -2.0 | -21.5 | -18.7 | 1.1 | 0.6 | 1.6 |
| 5600.00 | -1.5 | -2.0 | -22.2 | -19.0 | 1.1 | 0.6 | 1.3 |
| 5700.00 | -1.5 | -2.0 | -21.9 | -18.9 | 1.1 | 0.6 | 1.3 |
| 5800.00 | -1.5 | -2.0 | -21.2 | -18.3 | 1.1 | 0.6 | 1.4 |
| 5900.00 | -1.5 | -2.0 | -19.9 | -17.6 | 1.1 | 0.6 | 1.4 |
| 6000.00 | -1.5 | -2.0 | -18.9 | -16.7 | 1.1 | 0.6 | 1.2 |
| 6100.00 | -1.5 | -2.0 | -17.5 | -15.7 | 1.1 | 0.6 | 1.2 |
| 6200.00 | -1.5 | -2.1 | -16.5 | -14.9 | 1.1 | 0.6 | 1.4 |
| 6300.00 | -1.5 | -2.1 | -15.3 | -14.0 | 1.1 | 0.6 | 1.5 |
| 6400.00 | -1.6 | -2.2 | -14.4 | -13.3 | 1.1 | 0.6 | 1.2 |
| 6500.00 | -1.6 | -2.2 | -13.5 | -12.5 | 1.1 | 0.6 | 1.2 |
| 6600.00 | -1.7 | -2.3 | -12.7 | -11.8 | 1.1 | 0.6 | 1.4 |
| 6700.00 | -1.7 | -2.3 | -11.8 | -11.1 | 1.1 | 0.6 | 1.3 |
| 6800.00 | -1.8 | -2.4 | -11.1 | -10.6 | 1.1 | 0.6 | 1.7 |
| 6900.00 | -1.9 | -2.5 | -10.4 | -9.9 | 1.1 | 0.6 | 1.8 |
| 7000.00 | -2.0 | -2.6 | -9.8 | -9.4 | 1.1 | 0.6 | 1.7 |
| 7100.00 | -2.1 | -2.7 | -9.1 | -8.8 | 1.1 | 0.6 | 1.3 |
| 7200.00 | -2.3 | -2.9 | -8.6 | -8.3 | 1.1 | 0.6 | 1.6 |
| 7300.00 | -2.4 | -3.0 | -8.0 | -7.8 | 1.1 | 0.6 | 1.9 |
| 7400.00 | -2.5 | -3.1 | -7.5 | -7.4 | 1.1 | 0.6 | 1.4 |
| 7500.00 | -2.7 | -3.3 | -7.0 | -6.9 | 1.1 | 0.6 | 1.8 |
| 7600.00 | -2.9 | -3.5 | -6.6 | -6.6 | 1.1 | 0.6 | 1.6 |
| 7700.00 | -3.1 | -3.6 | -6.1 | -6.1 | 1.1 | 0.6 | 1.1 |
| 7800.00 | -3.2 | -3.8 | -5.8 | -5.9 | 1.1 | 0.6 | 1.5 |
| 7900.00 | -3.4 | -4.0 | -5.4 | -5.5 | 1.1 | 0.5 | 2.1 |
| 8000.00 | -3.6 | -4.2 | -5.1 | -5.3 | 1.1 | 0.5 | 2.1 |
| 8100.00 | -3.8 | -4.4 | -4.8 | -4.9 | 1.1 | 0.5 | 1.7 |
| 8200.00 | -4.0 | -4.6 | -4.6 | -4.8 | 1.1 | 0.5 | 2.3 |
| 8300.00 | -4.2 | -4.7 | -4.2 | -4.4 | 1.1 | 0.5 | 1.4 |
| 8400.00 | -4.4 | -5.0 | -4.1 | -4.3 | 1.1 | 0.5 | 1.5 |
| 8500.00 | -4.6 | -5.1 | -3.8 | -4.0 | 1.1 | 0.5 | 1.7 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 17.9 | 15.1 |
| 6000.0 | 18.7 | 16.0 |
| 7000.0 | 20.5 | 17.2 |
| 8000.0 | 20.9 | 15.7 |
| 8500.0 | 19.8 | 14.4 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.6 | 70.6 | 70.4 | 70.2 | 69.9 | 69.2 | 66.9 | 41.1 | 41.8 | 42.4 | 41.6 | 41.8 | 41.8 | 39.9 |
| 6000.0 | 77.6 | 77.4 | 77.4 | 77.1 | 76.9 | 76.6 | 76.1 | 39.7 | 40.7 | 41.1 | 42.4 | 42.5 | 42.2 | 36.1 |
| 7000.0 | 90.5 | 90.5 | 90.3 | 90.2 | 90.0 | 89.7 | 89.1 | 38.6 | 39.9 | 40.4 | 42.8 | 42.9 | 42.2 | 36.7 |
| 8000.0 | 84.8 | 84.8 | 84.8 | 84.8 | 84.7 | 84.6 | 84.6 | 40.9 | 41.5 | 42.2 | 40.6 | 40.6 | 40.5 | 39.8 |
| 8500.0 | 91.4 | 91.2 | 91.2 | 91.0 | 90.8 | 92.4 | 92.0 | 45.0 | 45.3 | 46.3 | 47.4 | 50.6 | 38.4 | 24.7 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 88 mA, $I_{EN}$ = 2.33 mA @ Temperature = - 45°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.7 | -33.7 | -1.8 | -4.0 | 1.4 | 0.9 | 20.0 | 21.8 | 3.6 | 30.4 | 33.7 | 33.1 | 33.4 | 32.9 | 32.9 | 32.3 |
| 300.00 | 20.6 | -28.8 | -5.8 | -8.2 | 1.2 | 0.8 | 20.1 | 21.7 | 1.8 | 32.9 | 33.4 | 33.7 | 33.8 | 33.2 | 33.0 | 32.4 |
| 400.00 | 22.0 | -27.3 | -12.4 | -13.7 | 1.1 | 0.7 | 20.6 | 22.2 | 1.4 | 33.6 | 32.2 | 36.1 | 34.4 | 34.8 | 34.2 | 33.7 |
| 500.00 | 22.4 | -27.0 | -17.8 | -14.9 | 1.1 | 0.6 | 21.0 | 22.4 | 1.2 | 33.7 | 34.6 | 35.1 | 35.1 | 35.3 | 35.0 | 34.4 |
| 600.00 | 22.4 | -27.0 | -17.0 | -13.8 | 1.1 | 0.6 | 21.3 | 22.6 | 1.1 | 32.6 | 34.7 | 36.9 | 36.2 | 35.5 | 35.7 | 35.1 |
| 700.00 | 22.4 | -27.0 | -15.3 | -13.0 | 1.1 | 0.6 | 21.5 | 22.8 | 1.0 | 35.5 | 33.4 | 35.9 | 34.7 | 35.0 | 34.5 | 33.9 |
| 800.00 | 22.4 | -27.0 | -14.3 | -12.7 | 1.1 | 0.6 | 21.6 | 22.9 | 1.0 | 34.0 | 35.4 | 36.0 | 35.4 | 35.5 | 35.2 | 34.9 |
| 900.00 | 22.4 | -27.1 | -13.9 | -12.6 | 1.1 | 0.6 | 21.7 | 23.0 | 1.0 | 34.7 | 36.2 | 36.0 | 36.0 | 35.1 | 35.1 | 34.6 |
| 1000.00 | 22.4 | -27.1 | -13.7 | -12.7 | 1.1 | 0.6 | 21.8 | 23.1 | 1.0 | 35.3 | 35.2 | 35.2 | 35.2 | 35.1 | 35.0 | 34.6 |
| 1100.00 | 22.4 | -27.1 | -13.7 | -13.0 | 1.1 | 0.6 | 21.7 | 23.1 | 1.0 | 35.2 | 35.1 | 35.3 | 35.1 | 35.2 | 34.8 | 34.5 |
| 1200.00 | 22.4 | -27.1 | -13.9 | -13.4 | 1.1 | 0.6 | 21.8 | 23.2 | 1.0 | 34.2 | 34.8 | 34.1 | 34.7 | 34.7 | 34.5 | 34.0 |
| 1300.00 | 22.4 | -27.1 | -14.1 | -13.9 | 1.1 | 0.6 | 21.8 | 23.2 | 1.0 | 33.2 | 33.9 | 34.0 | 34.4 | 34.4 | 34.0 | 33.7 |
| 1400.00 | 22.4 | -27.2 | -14.5 | -14.6 | 1.1 | 0.6 | 21.7 | 23.1 | 1.0 | 35.6 | 33.4 | 34.6 | 34.7 | 34.3 | 34.1 | 33.7 |
| 1500.00 | 22.5 | -27.2 | -14.9 | -15.5 | 1.1 | 0.6 | 21.6 | 23.2 | 1.0 | 33.5 | 33.6 | 34.0 | 33.3 | 33.3 | 33.1 | 32.7 |
| 1600.00 | 22.5 | -27.2 | -15.3 | -16.5 | 1.1 | 0.7 | 21.7 | 23.2 | 1.0 | 33.7 | 33.4 | 33.6 | 33.4 | 33.3 | 33.1 | 32.8 |
| 1700.00 | 22.5 | -27.2 | -15.5 | -17.4 | 1.1 | 0.7 | 21.7 | 23.4 | 1.1 | 34.3 | 35.0 | 33.7 | 33.4 | 33.2 | 33.1 | 32.9 |
| 1800.00 | 22.5 | -27.3 | -16.0 | -18.9 | 1.1 | 0.7 | 21.5 | 23.3 | 1.1 | 36.0 | 32.7 | 34.5 | 32.9 | 33.2 | 32.9 | 32.7 |
| 1900.00 | 22.6 | -27.4 | -16.4 | -21.0 | 1.1 | 0.7 | 21.5 | 23.2 | 1.1 | 31.8 | 32.7 | 32.7 | 32.6 | 32.4 | 32.4 | 32.1 |
| 2000.00 | 22.6 | -27.3 | -16.5 | -23.4 | 1.1 | 0.7 | 21.2 | 23.1 | 1.1 | 31.5 | 33.7 | 33.2 | 32.9 | 32.6 | 32.7 | 32.4 |
| 2100.00 | 22.6 | -27.4 | -16.4 | -26.3 | 1.1 | 0.7 | 21.5 | 23.3 | 1.1 | 32.0 | 34.2 | 32.8 | 33.1 | 32.6 | 32.5 | 32.3 |
| 2200.00 | 22.6 | -27.4 | -16.2 | -29.9 | 1.1 | 0.7 | 21.4 | 23.3 | 1.1 | 33.6 | 33.2 | 32.4 | 32.6 | 32.8 | 32.6 | 32.3 |
| 2300.00 | 22.6 | -27.5 | -15.9 | -32.6 | 1.2 | 0.7 | 21.4 | 23.4 | 1.1 | 32.1 | 32.3 | 32.7 | 32.6 | 32.3 | 32.5 | 32.3 |
| 2400.00 | 22.6 | -27.6 | -15.5 | -30.9 | 1.2 | 0.7 | 21.2 | 23.6 | 1.2 | 30.8 | 30.8 | 31.6 | 30.8 | 30.8 | 30.6 | 30.2 |
| 2500.00 | 22.6 | -27.7 | -15.3 | -28.4 | 1.2 | 0.7 | 21.2 | 23.7 | 1.2 | 30.1 | 30.9 | 30.5 | 30.9 | 30.7 | 30.4 | 30.1 |
| 2600.00 | 22.6 | -27.8 | -14.9 | -25.6 | 1.2 | 0.7 | 20.9 | 23.7 | 1.2 | 30.1 | 31.3 | 30.8 | 30.7 | 30.7 | 30.5 | 30.2 |
| 2700.00 | 22.6 | -27.8 | -14.5 | -23.5 | 1.2 | 0.7 | 20.5 | 23.3 | 1.3 | 31.4 | 30.9 | 30.7 | 31.0 | 30.6 | 30.5 | 30.3 |
| 2800.00 | 22.5 | -28.0 | -14.1 | -22.0 | 1.2 | 0.8 | 20.4 | 23.0 | 1.2 | 31.2 | 30.2 | 30.1 | 30.4 | 30.2 | 30.0 | 29.6 |
| 2900.00 | 22.5 | -28.0 | -13.6 | -20.4 | 1.2 | 0.8 | 20.1 | 22.8 | 1.3 | 30.3 | | 31.2 | 30.9 | 30.7 | 30.3 | 30.0 |
| 3000.00 | 22.5 | -28.1 | -13.1 | -19.1 | 1.2 | 0.8 | 20.3 | 23.0 | 1.3 | 30.9 | 29.4 | 29.8 | 29.3 | 29.2 | 28.9 | 28.4 |
| 3100.00 | 22.5 | -28.1 | -12.6 | -18.3 | 1.2 | 0.8 | 20.2 | 23.3 | 1.3 | 28.5 | 30.1 | 29.2 | 29.3 | 29.0 | 28.8 | 28.4 |
| 3200.00 | 22.5 | -28.1 | -12.2 | -17.7 | 1.2 | 0.8 | 20.2 | 23.3 | 1.3 | 29.6 | 29.9 | 29.8 | 29.7 | 29.6 | 29.5 | 29.2 |
| 3300.00 | 22.5 | -28.1 | -12.0 | -17.4 | 1.2 | 0.8 | 20.2 | 23.2 | 1.2 | 29.7 | 29.2 | 29.5 | 29.3 | 29.2 | 28.9 | 28.6 |
| 3400.00 | 22.5 | -28.1 | -11.8 | -16.9 | 1.2 | 0.8 | 20.0 | 23.0 | 1.3 | 28.1 | 30.0 | 29.8 | 29.7 | 29.6 | 29.3 | 29.1 |
| 3500.00 | 22.5 | -28.2 | -11.8 | -16.8 | 1.2 | 0.8 | 20.2 | 23.1 | 1.3 | 28.9 | 29.4 | 29.1 | 29.2 | 29.1 | 28.9 | 28.6 |
| 3600.00 | 22.5 | -28.2 | -11.8 | -17.1 | 1.2 | 0.8 | 20.1 | 23.0 | 1.2 | 28.8 | 29.5 | 29.0 | 29.3 | 29.1 | 29.0 | 28.8 |
| 3700.00 | 22.5 | -28.3 | -11.8 | -17.2 | 1.2 | 0.8 | 20.1 | 23.3 | 1.2 | 29.4 | 29.9 | 30.5 | 30.2 | 30.2 | 30.1 | 30.1 |
| 3800.00 | 22.5 | -28.3 | -11.9 | -17.4 | 1.2 | 0.8 | 20.2 | 23.4 | 1.2 | 29.0 | 29.2 | 29.8 | 29.6 | 29.7 | 29.7 | 29.5 |
| 3900.00 | 22.6 | -28.3 | -11.9 | -17.6 | 1.2 | 0.8 | 20.6 | 23.5 | 1.2 | 30.1 | 29.6 | 29.1 | 29.5 | 29.6 | 29.4 | 29.3 |
| 4000.00 | 22.6 | -28.3 | -12.0 | -18.0 | 1.2 | 0.8 | 20.8 | 23.6 | 1.2 | 30.0 | 29.3 | 29.5 | 29.8 | 29.7 | 29.7 | 29.5 |
| 4100.00 | 22.6 | -28.3 | -12.3 | -18.6 | 1.2 | 0.8 | 21.1 | 23.8 | 1.2 | 29.4 | 28.6 | 29.1 | 29.2 | 29.3 | 29.2 | 29.0 |
| 4200.00 | 22.7 | -28.4 | -12.5 | -19.3 | 1.2 | 0.8 | 21.1 | 23.6 | 1.2 | 29.1 | 29.1 | 29.1 | 29.4 | 29.5 | 29.4 | 29.3 |
| 4300.00 | 22.7 | -28.4 | -12.8 | -19.8 | 1.2 | 0.8 | 21.1 | 23.8 | 1.2 | 29.8 | 29.8 | 29.9 | 29.7 | 29.6 | 29.5 | 29.4 |
| 4400.00 | 22.7 | -28.4 | -13.3 | -20.9 | 1.2 | 0.8 | 21.0 | 23.9 | 1.2 | 29.8 | 29.2 | 29.4 | 29.5 | 29.6 | 29.5 | 29.4 |
| 4500.00 | 22.8 | -28.5 | -13.6 | -21.9 | 1.2 | 0.8 | 20.9 | 24.3 | 1.2 | 29.5 | 28.8 | 29.2 | 29.3 | 29.1 | 29.2 | 29.0 |
| 4600.00 | 22.8 | -28.6 | -14.2 | -22.5 | 1.2 | 0.8 | 20.6 | 24.4 | 1.2 | 28.2 | 29.0 | 28.7 | 29.2 | 29.0 | 28.9 | 28.7 |
| 4700.00 | 22.8 | -28.5 | -14.7 | -24.5 | 1.2 | 0.8 | 20.7 | 24.2 | 1.1 | 29.6 | 29.5 | 29.0 | 28.9 | 29.1 | 29.0 | 28.9 |
| 4800.00 | 22.9 | -28.6 | -15.2 | -25.4 | 1.2 | 0.8 | 20.9 | 23.9 | 1.2 | 29.6 | 29.0 | 29.2 | 29.2 | 29.3 | 29.3 | 29.3 |
| 4900.00 | 22.9 | -28.7 | -16.2 | -25.6 | 1.2 | 0.8 | 20.6 | 23.8 | 1.2 | 27.7 | 28.1 | 28.5 | 28.2 | 28.3 | 28.2 | 28.0 |
| 5000.00 | 23.0 | -28.6 | -16.6 | -27.4 | 1.2 | 0.8 | 20.7 | 23.7 | 1.3 | 27.7 | 27.9 | 28.0 | 27.8 | 27.7 | 27.7 | 27.5 |
| 5100.00 | 23.0 | -28.8 | -17.6 | -28.0 | 1.3 | 0.8 | 21.0 | 23.5 | 1.1 | 27.7 | 27.3 | 27.4 | 27.7 | 27.8 | 27.8 | 27.9 |
| 5200.00 | 23.0 | -28.8 | -18.9 | -28.0 | 1.3 | 0.8 | 21.0 | 23.4 | 1.2 | 27.2 | 27.7 | 28.0 | 28.1 | 28.3 | 28.4 | 28.6 |
| 5300.00 | 23.1 | -28.8 | -19.3 | -29.0 | 1.3 | 0.8 | 21.1 | 23.8 | 1.2 | 28.1 | 28.2 | 28.1 | 28.4 | 28.5 | 28.7 | 28.9 |
| 5400.00 | 23.1 | -29.1 | -21.3 | -27.7 | 1.3 | 0.8 | 20.9 | 24.1 | 1.2 | 27.8 | 27.7 | 27.7 | 27.9 | 28.0 | 28.1 | 28.1 |
| 5500.00 | 23.1 | -28.9 | -22.2 | -28.3 | 1.3 | 0.8 | 20.6 | 24.0 | 1.2 | 27.2 | 27.4 | 27.5 | 27.7 | 27.8 | 27.8 | 27.7 |
| 5600.00 | 23.2 | -29.0 | -21.9 | -30.3 | 1.3 | 0.8 | 19.8 | 23.9 | 1.2 | 27.4 | 27.3 | 27.6 | 27.5 | 27.5 | 27.5 | 27.4 |
| 5700.00 | 23.1 | -29.2 | -24.5 | -27.2 | 1.3 | 0.8 | 19.6 | 23.7 | 1.2 | 27.0 | 27.3 | 27.5 | 27.5 | 27.5 | 27.5 | 27.3 |
| 5800.00 | 23.3 | -29.0 | -23.1 | -29.8 | 1.3 | 0.8 | 19.6 | 23.5 | 1.2 | 26.6 | 27.0 | 26.8 | 27.0 | 27.0 | 26.9 | 26.7 |
| 5900.00 | 23.3 | -29.3 | -21.0 | -27.7 | 1.3 | 0.8 | 19.5 | 23.5 | 1.2 | 26.6 | 26.5 | 26.4 | 26.6 | 26.6 | 26.7 | 26.5 |
| 6000.00 | 23.1 | -29.2 | -22.0 | -26.5 | 1.3 | 0.8 | 18.7 | 23.4 | 1.3 | 25.7 | 25.4 | 25.6 | 25.5 | 25.6 | 25.5 | 25.3 |
| 6100.00 | 23.4 | -29.3 | -18.7 | -27.1 | 1.3 | 0.8 | 18.9 | 23.1 | 1.2 | 25.6 | 25.3 | 25.3 | 25.4 | 25.4 | 25.5 | 25.7 |
| 6200.00 | 23.3 | -29.6 | -16.8 | -22.7 | 1.3 | 0.8 | 18.7 | 22.5 | 1.3 | 24.6 | 24.9 | 24.9 | 24.9 | 25.0 | 25.1 | 25.5 |
| 6300.00 | 23.3 | -29.4 | -16.5 | -22.9 | 1.3 | 0.8 | 18.6 | 21.8 | 1.3 | 25.3 | 24.8 | 25.0 | 25.1 | 25.3 | 25.6 | 26.0 |
| 6400.00 | 23.4 | -29.7 | -14.1 | -20.2 | 1.3 | 0.8 | 18.5 | 21.2 | 1.3 | 24.3 | 24.1 | 24.3 | 24.5 | 24.7 | 25.0 | 25.5 |
| 6500.00 | 23.2 | -30.0 | -13.2 | -17.9 | 1.3 | 0.8 | 18.6 | 21.1 | 1.4 | 24.2 | 24.3 | 24.4 | 24.7 | 24.9 | 25.1 | 25.4 |
| 6600.00 | 23.3 | -29.8 | -12.1 | -17.5 | 1.3 | 0.8 | 18.9 | 21.2 | 1.4 | 24.9 | 25.0 | 24.9 | 25.1 | 25.3 | 25.6 | 25.9 |
| 6700.00 | 23.3 | -30.3 | -10.3 | -15.1 | 1.3 | 0.8 | 18.7 | 21.0 | 1.4 | 24.3 | 24.2 | 24.4 | 24.6 | 24.8 | 25.0 | 25.2 |
| 6800.00 | 23.0 | -30.8 | -9.7 | -13.8 | 1.4 | 0.9 | 18.7 | 20.9 | 1.4 | 24.4 | 24.3 | 24.4 | 24.7 | 24.9 | 25.1 | 25.3 |
| 6900.00 | 23.0 | -30.7 | -8.5 | -12.8 | 1.3 | 0.9 | 18.7 | 20.8 | 1.5 | 23.7 | 23.9 | 24.0 | 24.2 | 24.5 | 24.8 | 25.0 |
| 7000.00 | 22.8 | -31.5 | -7.4 | -11.3 | 1.4 | 0.9 | 19.1 | 21.0 | 1.5 | 22.9 | 23.1 | 23.1 | 23.4 | 23.6 | 23.8 | 24.0 |
| 7100.00 | 22.5 | -32.1 | -7.1 | -10.5 | 1.5 | 0.9 | 19.2 | 20.9 | 1.5 | 23.3 | 23.3 | 23.3 | 23.5 | 23.7 | 23.9 | 24.0 |
| 7200.00 | 22.3 | -32.5 | -6.1 | -9.5 | 1.5 | 0.9 | 19.1 | 20.7 | 1.5 | 23.0 | 23.3 | 23.5 | 23.7 | 23.8 | 24.1 | 24.3 |
| 7300.00 | 21.8 | -33.7 | -5.4 | -8.4 | 1.6 | 0.9 | 19.2 | 20.5 | 1.6 | 22.6 | 22.6 | 22.7 | 22.9 | 23.1 | 23.3 | 23.4 |
| 7400.00 | 21.3 | -34.4 | -5.2 | -7.8 | 1.7 | 1.0 | 19.1 | 20.2 | 1.6 | 22.3 | 22.6 | 22.7 | 23.0 | 23.2 | 23.3 | 23.5 |
| 7500.00 | 20.8 | -35.6 | -4.5 | -7.0 | 1.8 | 1.0 | 18.9 | 19.7 | 1.6 | 21.3 | 21.4 | 21.6 | 21.8 | 21.9 | 21.9 | 22.3 |
| 7600.00 | 19.9 | -37.6 | -4.4 | -6.3 | 2.3 | 1.0 | 18.9 | 19.5 | 1.7 | 22.1 | 22.1 | 22.3 | 22.5 | 22.6 | 22.5 | 22.6 |
| 7700.00 | 19.2 | -38.8 | -4.4 | -6.1 | 2.7 | 1.0 | 18.7 | 19.2 | 1.7 | 21.5 | 21.6 | 21.8 | 22.0 | 22.0 | 21.9 | 22.3 |
| 7800.00 | 18.5 | -41.3 | -4.0 | -5.6 | 3.5 | 1.0 | 17.9 | 18.4 | 1.7 | 20.8 | 20.9 | 21.1 | 21.2 | 21.2 | 21.2 | 22.0 |
| 7900.00 | 17.3 | -43.8 | -4.4 | -5.1 | 5.2 | 0.9 | 17.1 | 17.5 | 1.8 | 20.3 | 20.3 | 20.6 | 20.7 | 20.6 | 20.7 | 21.9 |
| 8000.00 | 16.4 | -45.6 | -4.0 | -4.7 | 6.3 | 0.9 | 16.1 | 16.5 | 1.8 | 18.6 | 18.9 | 18.9 | 18.9 | 18.8 | 19.8 | 21.8 |

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 88 mA, $I_{EN}$ = 2.33 mA @ Temperature = - 45°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 42.4 | 42.2 | 42.2 | 42.1 | 42.0 | 41.7 | 41.3 |
| 1000.0 | 40.4 | 40.4 | 40.2 | 40.2 | 40.1 | 40.0 | 39.8 |
| 2000.0 | 38.0 | 37.9 | 37.9 | 37.8 | 37.8 | 37.8 | 37.8 |
| 4000.0 | 38.7 | 38.7 | 38.7 | 38.7 | 38.9 | 39.2 | 39.6 |
| 6000.0 | 29.3 | 29.2 | 29.2 | 29.1 | 29.2 | 29.2 | 29.3 |
| 8000.0 | 35.0 | 35.0 | 35.0 | 35.2 | 35.8 | 36.9 | 39.0 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 96 mA, $I_{EN}$ = 2.31 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 22.6 | -29.8 | -11.5 | -10.5 | 1.3 | 0.7 | 20.4 | 23.8 | 1.1 | 28.1 | 28.6 | 28.2 | 28.3 | 28.5 | 28.6 | 28.4 |
| 5600.00 | 22.7 | -29.8 | -11.3 | -10.7 | 1.3 | 0.7 | 20.0 | 23.7 | 1.1 | 26.6 | 27.2 | 27.1 | 27.2 | 27.3 | 27.2 | 27.0 |
| 5700.00 | 22.7 | -29.8 | -11.8 | -10.9 | 1.3 | 0.7 | 19.8 | 23.7 | 1.1 | 27.1 | 27.3 | 27.3 | 27.4 | 27.5 | 27.5 | 27.3 |
| 5800.00 | 22.8 | -29.8 | -11.5 | -11.1 | 1.3 | 0.7 | 19.7 | 23.6 | 1.1 | 26.9 | 27.1 | 27.1 | 27.2 | 27.3 | 27.4 | 27.2 |
| 5900.00 | 22.8 | -29.7 | -12.0 | -11.4 | 1.3 | 0.8 | 19.0 | 23.5 | 1.1 | 26.7 | 27.2 | 26.6 | 26.7 | 26.7 | 26.7 | 26.4 |
| 6000.00 | 22.9 | -29.8 | -11.6 | -11.5 | 1.3 | 0.8 | 18.1 | 23.1 | 1.1 | 25.1 | 25.0 | 24.9 | 25.0 | 25.0 | 24.8 | 24.2 |
| 6100.00 | 22.9 | -29.8 | -12.1 | -11.9 | 1.3 | 0.8 | 19.0 | 23.1 | 1.1 | 25.1 | 25.6 | 25.4 | 25.5 | 25.6 | 25.6 | 25.4 |
| 6200.00 | 23.1 | -29.9 | -11.8 | -11.9 | 1.3 | 0.8 | 19.1 | 22.9 | 1.1 | 24.3 | 25.0 | 24.6 | 24.8 | 24.9 | 25.0 | 25.2 |
| 6300.00 | 23.1 | -29.9 | -12.2 | -12.3 | 1.3 | 0.8 | 19.7 | 22.9 | 1.1 | 25.0 | 25.6 | 25.4 | 25.6 | 25.8 | 26.1 | 26.5 |
| 6400.00 | 23.2 | -30.0 | -11.9 | -12.2 | 1.3 | 0.8 | 19.8 | 22.8 | 1.1 | 25.4 | 25.6 | 25.5 | 25.6 | 25.8 | 26.2 | 26.8 |
| 6500.00 | 23.2 | -29.9 | -12.4 | -12.8 | 1.3 | 0.8 | 19.7 | 22.5 | 1.1 | 25.1 | 25.3 | 25.5 | 25.7 | 26.1 | 26.4 | 27.0 |
| 6600.00 | 23.3 | -30.3 | -12.2 | -12.7 | 1.3 | 0.8 | 20.0 | 22.5 | 1.1 | 25.8 | 25.5 | 25.8 | 25.9 | 26.3 | 26.6 | 27.1 |
| 6700.00 | 23.3 | -30.1 | -12.9 | -13.4 | 1.3 | 0.8 | 19.9 | 22.2 | 1.2 | 25.2 | 25.8 | 25.6 | 25.9 | 26.2 | 26.7 | 27.3 |
| 6800.00 | 23.4 | -30.4 | -12.8 | -13.3 | 1.3 | 0.8 | 20.0 | 22.1 | 1.2 | 25.4 | 25.9 | 26.0 | 26.3 | 26.6 | 27.1 | 27.6 |
| 6900.00 | 23.4 | -30.3 | -13.5 | -14.1 | 1.3 | 0.8 | 20.2 | 22.1 | 1.2 | 26.2 | 26.1 | 26.2 | 26.6 | 26.9 | 27.4 | 28.1 |
| 7000.00 | 23.5 | -30.6 | -13.5 | -14.0 | 1.3 | 0.8 | 20.3 | 22.1 | 1.2 | 25.5 | 25.5 | 25.9 | 26.1 | 26.5 | 27.0 | 27.7 |
| 7100.00 | 23.5 | -30.6 | -14.5 | -15.0 | 1.4 | 0.8 | 20.3 | 22.0 | 1.2 | 25.5 | 25.7 | 26.3 | 26.4 | 26.8 | 27.3 | 27.9 |
| 7200.00 | 23.6 | -30.9 | -14.7 | -15.0 | 1.4 | 0.8 | 20.5 | 22.2 | 1.3 | 25.5 | 25.9 | 26.1 | 26.3 | 26.7 | 27.3 | 28.0 |
| 7300.00 | 23.6 | -31.0 | -16.1 | -16.2 | 1.4 | 0.8 | 20.4 | 22.1 | 1.3 | 25.5 | 25.9 | 25.6 | 25.9 | 26.4 | 27.0 | 27.8 |
| 7400.00 | 23.7 | -31.2 | -16.4 | -16.3 | 1.4 | 0.8 | 20.7 | 22.3 | 1.4 | 25.4 | 25.1 | 25.5 | 25.9 | 26.4 | 27.0 | 27.9 |
| 7500.00 | 23.6 | -31.4 | -18.4 | -18.0 | 1.5 | 0.8 | 20.2 | 21.8 | 1.4 | 25.2 | 25.4 | 25.5 | 25.9 | 26.4 | 27.1 | 28.0 |
| 7600.00 | 23.7 | -31.9 | -18.4 | -18.0 | 1.5 | 0.9 | 20.3 | 21.8 | 1.5 | 25.3 | 25.3 | 25.4 | 25.8 | 26.2 | 26.9 | 27.7 |
| 7700.00 | 23.6 | -32.0 | -21.2 | -20.4 | 1.6 | 0.9 | 20.5 | 21.9 | 1.5 | 23.7 | 24.3 | 24.4 | 24.9 | 25.3 | 26.0 | 27.0 |
| 7800.00 | 23.7 | -32.6 | -19.2 | -20.5 | 1.6 | 0.9 | 20.0 | 21.5 | 1.6 | 24.8 | 25.1 | 25.2 | 25.5 | 26.0 | 26.7 | 27.8 |
| 7900.00 | 23.4 | -32.8 | -21.0 | -25.3 | 1.7 | 0.9 | 19.7 | 21.2 | 1.7 | 25.0 | 25.2 | 25.2 | 25.4 | 25.9 | 26.7 | 27.8 |
| 8000.00 | 23.3 | -33.9 | -16.8 | -24.5 | 1.9 | 0.9 | 19.3 | 20.7 | 1.8 | 23.9 | 24.0 | 24.4 | 24.8 | 25.4 | 26.4 | 27.7 |
| 8100.00 | 23.1 | -33.9 | -16.7 | -30.1 | 1.9 | 0.9 | 19.3 | 20.6 | 1.9 | 23.7 | 23.9 | 24.1 | 24.5 | 25.2 | 26.2 | 27.4 |
| 8200.00 | 22.7 | -35.6 | -12.5 | -20.6 | 2.3 | 1.0 | 18.9 | 20.2 | 2.0 | 22.6 | | 23.1 | 23.8 | 24.5 | 25.6 | 27.0 |
| 8300.00 | 22.4 | -35.5 | -12.4 | -19.7 | 2.3 | 1.0 | 19.0 | 20.2 | 2.2 | 23.2 | 23.4 | 23.4 | 24.0 | 24.7 | 25.8 | 27.2 |
| 8400.00 | 21.6 | -38.1 | -9.1 | -13.9 | 3.0 | 1.1 | 18.7 | 19.8 | 2.3 | 23.1 | 22.9 | 23.3 | 23.9 | 24.5 | 25.7 | 27.3 |
| 8500.00 | 21.4 | -37.7 | -8.8 | -13.0 | 2.9 | 1.1 | 18.2 | 19.3 | 2.5 | 21.5 | 21.5 | 21.9 | 22.6 | 23.4 | 24.7 | 26.2 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 36.8 | 36.7 | 36.6 | 36.6 | 36.5 | 36.6 | 36.6 |
| 6000.0 | 31.5 | 31.4 | 31.3 | 31.2 | 31.1 | 31.1 | 31.0 |
| 7000.0 | 40.8 | 40.6 | 40.5 | 40.4 | 40.3 | 40.4 | 40.6 |
| 8000.0 | 49.5 | 49.4 | 49.3 | 49.1 | 49.0 | 49.1 | 49.4 |
| 8500.0 | 58.9 | 58.7 | 58.5 | 58.4 | 58.4 | 58.6 | 59.5 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.6 | -3.7 | -3.9 | -8.4 | 1.1 | 0.8 | 2.7 |
| 300.00 | -2.2 | -2.3 | -6.6 | -11.2 | 1.0 | 0.6 | 1.4 |
| 400.00 | -1.7 | -1.7 | -9.2 | -13.4 | 1.0 | 0.5 | 1.1 |
| 500.00 | -1.3 | -1.4 | -11.8 | -15.2 | 1.0 | 0.5 | 1.0 |
| 600.00 | -1.2 | -1.2 | -14.8 | -17.0 | 1.0 | 0.4 | 0.8 |
| 700.00 | -1.1 | -1.2 | -18.1 | -18.3 | 1.0 | 0.4 | 1.0 |
| 800.00 | -1.1 | -1.1 | -22.2 | -18.7 | 1.0 | 0.4 | 1.0 |
| 900.00 | -1.1 | -1.1 | -27.8 | -18.5 | 1.0 | 0.4 | 1.0 |
| 1000.00 | -1.0 | -1.1 | -35.0 | -18.1 | 1.0 | 0.4 | 0.9 |
| 1100.00 | -1.0 | -1.1 | -28.5 | -17.6 | 1.0 | 0.4 | 0.5 |
| 1200.00 | -1.1 | -1.1 | -23.9 | -17.2 | 1.0 | 0.4 | 0.8 |
| 1300.00 | -1.1 | -1.1 | -21.1 | -16.7 | 1.0 | 0.4 | 0.8 |
| 1400.00 | -1.1 | -1.2 | -19.0 | -16.2 | 1.0 | 0.4 | 0.8 |
| 1500.00 | -1.1 | -1.2 | -17.6 | -15.7 | 1.0 | 0.4 | 1.0 |
| 1600.00 | -1.2 | -1.2 | -16.5 | -15.5 | 1.0 | 0.4 | 1.0 |
| 1700.00 | -1.2 | -1.3 | -15.7 | -15.6 | 1.0 | 0.4 | 1.0 |
| 1800.00 | -1.2 | -1.3 | -14.9 | -15.5 | 1.0 | 0.4 | 1.0 |
| 1900.00 | -1.2 | -1.4 | -14.5 | -15.3 | 1.0 | 0.5 | 0.9 |
| 2000.00 | -1.3 | -1.4 | -14.1 | -15.2 | 1.0 | 0.5 | 1.1 |
| 2100.00 | -1.3 | -1.4 | -13.9 | -15.4 | 1.0 | 0.5 | 0.7 |
| 2200.00 | -1.3 | -1.5 | -13.7 | -15.7 | 1.0 | 0.5 | 1.1 |
| 2300.00 | -1.4 | -1.5 | -13.6 | -16.0 | 1.0 | 0.5 | 1.1 |
| 2400.00 | -1.4 | -1.6 | -13.6 | -16.4 | 1.0 | 0.5 | 1.2 |
| 2500.00 | -1.4 | -1.6 | -13.5 | -16.9 | 1.0 | 0.5 | 1.3 |
| 2600.00 | -1.4 | -1.6 | -13.6 | -17.6 | 1.0 | 0.5 | 1.4 |
| 2700.00 | -1.4 | -1.7 | -13.8 | -18.5 | 1.0 | 0.6 | 0.9 |
| 2800.00 | -1.4 | -1.8 | -14.1 | -19.6 | 1.1 | 0.6 | 1.2 |
| 2900.00 | -1.4 | -1.8 | -14.3 | -20.6 | 1.1 | 0.6 | 1.3 |
| 3000.00 | -1.5 | -1.9 | -14.4 | -21.8 | 1.1 | 0.6 | 1.9 |
| 3100.00 | -1.5 | -1.8 | -14.5 | -23.7 | 1.1 | 0.6 | 1.0 |
| 3200.00 | -1.5 | -1.8 | -14.5 | -26.1 | 1.1 | 0.6 | 1.3 |
| 3300.00 | -1.5 | -1.8 | -14.5 | -28.6 | 1.1 | 0.6 | 1.3 |
| 3400.00 | -1.5 | -1.8 | -14.6 | -31.3 | 1.1 | 0.6 | 1.3 |
| 3500.00 | -1.5 | -1.8 | -14.6 | -32.0 | 1.1 | 0.6 | 1.6 |
| 3600.00 | -1.5 | -1.8 | -14.5 | -28.3 | 1.1 | 0.6 | 1.6 |
| 3700.00 | -1.5 | -1.8 | -14.4 | -25.3 | 1.1 | 0.6 | 1.2 |
| 3800.00 | -1.5 | -1.8 | -14.1 | -23.1 | 1.1 | 0.6 | 1.1 |
| 3900.00 | -1.6 | -1.8 | -14.0 | -21.2 | 1.1 | 0.6 | 1.1 |
| 4000.00 | -1.6 | -1.8 | -13.7 | -19.5 | 1.1 | 0.6 | 1.3 |
| 4100.00 | -1.6 | -1.8 | -13.4 | -18.1 | 1.1 | 0.6 | 1.4 |
| 4200.00 | -1.6 | -1.9 | -13.0 | -17.0 | 1.1 | 0.6 | 1.3 |
| 4300.00 | -1.6 | -1.9 | -12.8 | -16.0 | 1.1 | 0.6 | 1.1 |
| 4400.00 | -1.7 | -1.9 | -12.4 | -15.1 | 1.1 | 0.6 | 1.3 |
| 4500.00 | -1.7 | -1.9 | -12.2 | -14.5 | 1.1 | 0.6 | 1.5 |
| 4600.00 | -1.7 | -2.0 | -12.0 | -13.9 | 1.1 | 0.6 | 0.9 |
| 4700.00 | -1.7 | -2.0 | -11.7 | -13.3 | 1.1 | 0.6 | 1.3 |
| 4800.00 | -1.7 | -2.0 | -11.5 | -13.0 | 1.1 | 0.6 | 1.3 |
| 4900.00 | -1.8 | -2.1 | -11.4 | -12.7 | 1.1 | 0.6 | 1.6 |
| 5000.00 | -1.7 | -2.1 | -11.2 | -12.3 | 1.1 | 0.6 | 1.7 |
| 5100.00 | -1.8 | -2.1 | -11.1 | -12.1 | 1.1 | 0.6 | 1.2 |
| 5200.00 | -1.8 | -2.2 | -11.0 | -11.9 | 1.1 | 0.6 | 3.1 |
| 5300.00 | -1.7 | -2.2 | -11.0 | -11.8 | 1.1 | 0.6 | 2.1 |
| 5400.00 | -1.8 | -2.2 | -11.0 | -11.7 | 1.1 | 0.6 | 1.2 |
| 5500.00 | -1.8 | -2.2 | -10.9 | -11.4 | 1.1 | 0.6 | 1.5 |
| 5600.00 | -1.7 | -2.2 | -11.0 | -11.4 | 1.1 | 0.6 | 1.3 |
| 5700.00 | -1.8 | -2.2 | -11.1 | -11.4 | 1.1 | 0.6 | 1.4 |
| 5800.00 | -1.7 | -2.2 | -11.1 | -11.3 | 1.1 | 0.5 | 1.4 |
| 5900.00 | -1.7 | -2.2 | -11.4 | -11.5 | 1.1 | 0.5 | 1.4 |
| 6000.00 | -1.7 | -2.2 | -11.4 | -11.3 | 1.1 | 0.5 | 1.6 |
| 6100.00 | -1.6 | -2.1 | -11.7 | -11.5 | 1.1 | 0.5 | 1.3 |
| 6200.00 | -1.6 | -2.1 | -12.0 | -11.7 | 1.1 | 0.5 | 1.0 |
| 6300.00 | -1.6 | -2.1 | -12.0 | -11.6 | 1.1 | 0.5 | 1.6 |
| 6400.00 | -1.6 | -2.1 | -12.4 | -11.8 | 1.1 | 0.5 | 1.7 |
| 6500.00 | -1.6 | -2.1 | -12.5 | -11.8 | 1.1 | 0.5 | 1.3 |
| 6600.00 | -1.6 | -2.1 | -12.6 | -11.8 | 1.1 | 0.5 | 1.5 |
| 6700.00 | -1.6 | -2.1 | -13.0 | -12.1 | 1.1 | 0.5 | 1.1 |
| 6800.00 | -1.6 | -2.1 | -13.1 | -12.1 | 1.1 | 0.5 | 1.2 |
| 6900.00 | -1.6 | -2.1 | -13.1 | -12.1 | 1.1 | 0.5 | 1.2 |
| 7000.00 | -1.6 | -2.1 | -13.2 | -12.1 | 1.1 | 0.5 | 1.8 |
| 7100.00 | -1.7 | -2.2 | -13.0 | -11.9 | 1.1 | 0.6 | 1.2 |
| 7200.00 | -1.6 | -2.2 | -12.9 | -11.9 | 1.1 | 0.6 | 1.8 |
| 7300.00 | -1.7 | -2.3 | -12.8 | -11.7 | 1.1 | 0.6 | 1.5 |
| 7400.00 | -1.8 | -2.3 | -12.4 | -11.4 | 1.1 | 0.6 | 1.8 |
| 7500.00 | -1.8 | -2.3 | -12.1 | -11.2 | 1.1 | 0.6 | 1.8 |
| 7600.00 | -1.9 | -2.5 | -11.8 | -10.9 | 1.1 | 0.6 | 2.2 |
| 7700.00 | -2.0 | -2.5 | -11.1 | -10.5 | 1.1 | 0.6 | 0.8 |
| 7800.00 | -2.1 | -2.6 | -10.8 | -10.2 | 1.1 | 0.6 | 1.4 |
| 7900.00 | -2.3 | -2.8 | -10.3 | -9.6 | 1.1 | 0.6 | 1.5 |
| 8000.00 | -2.3 | -2.8 | -9.5 | -9.1 | 1.1 | 0.6 | 1.8 |

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 42.5 | 43.3 | 43.5 | 43.4 | 40.5 | 31.9 | 23.3 |
| 1000.0 | 41.9 | 43.2 | 44.7 | 42.1 | 31.5 | 21.9 | 16.5 |
| 2000.0 | 42.9 | 44.5 | 45.7 | 45.7 | 40.8 | 30.1 | 20.0 |
| 4000.0 | 41.4 | 42.0 | 42.9 | 43.7 | 44.1 | 42.3 | 34.0 |
| 6000.0 | 43.0 | 44.0 | 44.7 | 45.8 | 46.1 | 42.7 | 31.3 |
| 8000.0 | 45.9 | 46.6 | 47.0 | 47.1 | 46.7 | 43.2 | 32.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.1 | 70.0 | 69.8 | 69.6 | 69.2 | 67.7 | 58.6 |
| 1000.0 | 70.8 | 70.9 | 71.2 | 71.5 | 71.4 | 62.8 | 52.1 |
| 2000.0 | 70.5 | 70.4 | 70.4 | 70.5 | 70.6 | 69.3 | 58.1 |
| 4000.0 | 71.7 | 71.6 | 71.6 | 71.7 | 71.7 | 71.7 | 71.4 |
| 6000.0 | 74.0 | 74.0 | 74.0 | 73.8 | 73.5 | 73.0 | 71.2 |
| 8000.0 | 84.6 | 84.6 | 84.6 | 84.6 | 84.5 | 84.3 | 83.2 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 16.3 | 13.4 |
| 1000.0 | 13.7 | 11.7 |
| 2000.0 | 15.2 | 13.1 |
| 4000.0 | 18.0 | 15.5 |
| 6000.0 | 18.6 | 15.8 |
| 8000.0 | 18.5 | 15.1 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.5 | -2.0 | -21.4 | -18.7 | 1.1 | 0.6 | 1.5 |
| 5600.00 | -1.5 | -2.0 | -22.2 | -18.9 | 1.1 | 0.6 | 1.6 |
| 5700.00 | -1.5 | -2.0 | -21.9 | -18.9 | 1.1 | 0.6 | 1.5 |
| 5800.00 | -1.5 | -2.0 | -21.1 | -18.2 | 1.1 | 0.6 | 1.2 |
| 5900.00 | -1.5 | -2.0 | -19.9 | -17.5 | 1.1 | 0.6 | 1.0 |
| 6000.00 | -1.5 | -2.0 | -18.9 | -16.7 | 1.1 | 0.6 | 1.2 |
| 6100.00 | -1.5 | -2.1 | -17.5 | -15.7 | 1.1 | 0.6 | 1.6 |
| 6200.00 | -1.5 | -2.1 | -16.5 | -14.9 | 1.1 | 0.6 | 1.5 |
| 6300.00 | -1.5 | -2.1 | -15.3 | -14.0 | 1.1 | 0.6 | 1.5 |
| 6400.00 | -1.6 | -2.2 | -14.4 | -13.3 | 1.1 | 0.6 | 1.4 |
| 6500.00 | -1.6 | -2.2 | -13.5 | -12.5 | 1.1 | 0.6 | 1.5 |
| 6600.00 | -1.7 | -2.3 | -12.7 | -11.9 | 1.1 | 0.6 | 1.3 |
| 6700.00 | -1.7 | -2.4 | -11.8 | -11.1 | 1.1 | 0.6 | 1.4 |
| 6800.00 | -1.8 | -2.4 | -11.1 | -10.6 | 1.1 | 0.6 | 1.4 |
| 6900.00 | -1.9 | -2.5 | -10.4 | -9.9 | 1.1 | 0.6 | 1.4 |
| 7000.00 | -2.0 | -2.6 | -9.8 | -9.4 | 1.1 | 0.6 | 1.7 |
| 7100.00 | -2.1 | -2.7 | -9.1 | -8.8 | 1.1 | 0.6 | 1.5 |
| 7200.00 | -2.3 | -2.9 | -8.6 | -8.3 | 1.1 | 0.6 | 1.5 |
| 7300.00 | -2.4 | -3.0 | -8.0 | -7.8 | 1.1 | 0.6 | 1.4 |
| 7400.00 | -2.6 | -3.2 | -7.5 | -7.4 | 1.1 | 0.6 | 1.7 |
| 7500.00 | -2.7 | -3.3 | -7.0 | -6.9 | 1.1 | 0.6 | 1.6 |
| 7600.00 | -2.9 | -3.5 | -6.6 | -6.6 | 1.1 | 0.6 | 1.4 |
| 7700.00 | -3.1 | -3.6 | -6.1 | -6.1 | 1.1 | 0.6 | 1.8 |
| 7800.00 | -3.2 | -3.8 | -5.8 | -5.9 | 1.1 | 0.6 | 1.6 |
| 7900.00 | -3.4 | -4.0 | -5.4 | -5.5 | 1.1 | 0.5 | 1.9 |
| 8000.00 | -3.6 | -4.2 | -5.2 | -5.3 | 1.1 | 0.6 | 2.1 |
| 8100.00 | -3.8 | -4.4 | -4.8 | -4.9 | 1.1 | 0.5 | 1.6 |
| 8200.00 | -4.0 | -4.6 | -4.6 | -4.8 | 1.1 | 0.5 | 2.0 |
| 8300.00 | -4.2 | -4.7 | -4.2 | -4.4 | 1.1 | 0.5 | 1.8 |
| 8400.00 | -4.4 | -5.0 | -4.1 | -4.3 | 1.1 | 0.5 | 1.5 |
| 8500.00 | -4.6 | -5.1 | -3.8 | -4.0 | 1.1 | 0.5 | 1.8 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 17.7 | 15.0 |
| 6000.0 | 18.7 | 15.8 |
| 7000.0 | 20.5 | 16.9 |
| 8000.0 | 20.7 | 15.6 |
| 8500.0 | 19.6 | 14.3 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.8 | 70.8 | 70.6 | 70.4 | 70.0 | 69.3 | 66.9 | 41.4 | 41.7 | 42.4 | 41.7 | 41.9 | 41.7 | 39.2 |
| 6000.0 | 77.9 | 77.7 | 77.6 | 77.4 | 77.1 | 76.7 | 76.2 | 40.4 | 40.8 | 41.3 | 42.6 | 42.5 | 42.1 | 35.5 |
| 7000.0 | 90.5 | 90.4 | 90.4 | 90.2 | 90.0 | 89.7 | 89.1 | 39.9 | 40.0 | 40.4 | 42.5 | 42.7 | 41.8 | 36.0 |
| 8000.0 | 84.8 | 84.7 | 84.7 | 84.7 | 84.6 | 84.4 | 84.5 | 40.7 | 42.0 | 42.6 | 40.5 | 40.5 | 40.3 | 39.4 |
| 8500.0 | 91.1 | 91.2 | 91.1 | 90.8 | 90.7 | 92.3 | 91.0 | 41.5 | 42.5 | 43.7 | 45.6 | 47.8 | 37.4 | 23.5 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 104 mA, $I_{EN}$ = 2.55 mA @ Temperature = - 45°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.9 | -33.9 | -1.8 | -4.0 | 1.4 | 0.9 | 20.9 | 22.7 | 3.7 | 34.5 | 33.2 | 35.2 | 36.3 | 36.0 | 35.0 | 34.5 |
| 300.00 | 20.8 | -28.9 | -5.9 | -8.1 | 1.2 | 0.8 | 20.9 | 22.7 | 1.8 | 33.7 | 36.2 | 34.4 | 35.8 | 35.8 | 35.7 | 34.8 |
| 400.00 | 22.3 | -27.6 | -12.6 | -13.3 | 1.1 | 0.7 | 21.4 | 23.1 | 1.4 | 32.9 | 36.7 | 36.9 | 37.2 | 37.8 | 36.8 | 36.3 |
| 500.00 | 22.6 | -27.2 | -17.4 | -14.1 | 1.1 | 0.6 | 21.8 | 23.3 | 1.2 | 32.6 | 34.7 | 39.3 | 39.8 | 37.9 | 37.4 | 36.9 |
| 600.00 | 22.6 | -27.2 | -16.1 | -13.0 | 1.1 | 0.6 | 22.1 | 23.5 | 1.1 | 34.8 | 36.7 | 38.3 | 39.5 | 38.9 | 37.8 | 37.7 |
| 700.00 | 22.6 | -27.3 | -14.4 | -12.3 | 1.1 | 0.6 | 22.3 | 23.7 | 1.0 | 35.9 | 36.2 | 37.0 | 37.7 | 37.4 | 37.0 | 36.4 |
| 800.00 | 22.6 | -27.3 | -13.6 | -12.0 | 1.1 | 0.6 | 22.4 | 23.8 | 1.0 | 36.7 | 37.8 | 37.6 | 38.8 | 37.7 | 37.6 | 37.3 |
| 900.00 | 22.5 | -27.4 | -13.2 | -11.9 | 1.1 | 0.6 | 22.5 | 23.9 | 1.1 | 36.4 | 39.3 | 36.5 | 37.5 | 37.8 | 37.1 | 37.0 |
| 1000.00 | 22.6 | -27.4 | -13.0 | -12.0 | 1.1 | 0.6 | 22.6 | 24.0 | 1.1 | 37.1 | 35.6 | 36.1 | 37.2 | 37.3 | 37.1 | 36.9 |
| 1100.00 | 22.6 | -27.4 | -13.1 | -12.2 | 1.1 | 0.6 | 22.6 | 23.9 | 1.1 | 34.4 | 35.0 | 37.4 | 37.4 | 37.1 | 36.8 | 36.8 |
| 1200.00 | 22.6 | -27.4 | -13.2 | -12.6 | 1.1 | 0.6 | 22.7 | 24.0 | 1.1 | 38.9 | 38.4 | 36.5 | 36.1 | 36.7 | 36.7 | 36.2 |
| 1300.00 | 22.6 | -27.4 | -13.5 | -13.1 | 1.1 | 0.6 | 22.6 | 24.0 | 1.1 | 35.8 | 35.3 | 36.3 | 36.5 | 36.1 | 36.1 | 35.9 |
| 1400.00 | 22.6 | -27.4 | -13.9 | -13.7 | 1.1 | 0.6 | 22.6 | 24.0 | 1.0 | 35.7 | 34.0 | 35.1 | 35.4 | 35.9 | 36.2 | 36.0 |
| 1500.00 | 22.7 | -27.4 | -14.4 | -14.5 | 1.1 | 0.6 | 22.4 | 24.1 | 1.0 | 32.9 | 34.6 | 36.3 | 35.5 | 35.6 | 35.2 | 35.1 |
| 1600.00 | 22.7 | -27.5 | -14.9 | -15.4 | 1.1 | 0.7 | 22.6 | 24.1 | 1.0 | 34.6 | 34.3 | 35.3 | 35.0 | 35.2 | 35.2 | 35.0 |
| 1700.00 | 22.7 | -27.5 | -15.1 | -16.1 | 1.1 | 0.7 | 22.6 | 24.2 | 1.1 | 36.8 | 35.5 | 35.3 | 35.3 | 35.4 | 35.2 | 35.2 |
| 1800.00 | 22.7 | -27.6 | -15.8 | -17.4 | 1.1 | 0.7 | 22.4 | 24.1 | 1.1 | 36.3 | 32.7 | 35.2 | 34.7 | 34.9 | 35.0 | 34.9 |
| 1900.00 | 22.8 | -27.6 | -16.3 | -19.1 | 1.1 | 0.7 | 22.4 | 24.1 | 1.1 | 34.7 | 33.7 | 33.8 | 34.0 | 34.5 | 34.5 | 34.3 |
| 2000.00 | 22.8 | -27.6 | -16.7 | -21.0 | 1.1 | 0.7 | 22.2 | 24.0 | 1.1 | 32.3 | 33.3 | 34.3 | 33.9 | 34.8 | 34.7 | 34.6 |
| 2100.00 | 22.8 | -27.6 | -16.8 | -23.2 | 1.1 | 0.7 | 22.5 | 24.2 | 1.1 | 31.5 | 35.3 | 33.7 | 33.8 | 34.3 | 34.5 | 34.5 |
| 2200.00 | 22.8 | -27.6 | -16.8 | -25.8 | 1.1 | 0.7 | 22.4 | 24.2 | 1.2 | 32.8 | 34.8 | 32.9 | 33.3 | 34.1 | 34.5 | 34.5 |
| 2300.00 | 22.8 | -27.7 | -16.6 | -29.0 | 1.2 | 0.7 | 22.4 | 24.3 | 1.2 | 34.5 | 33.3 | 33.8 | 33.9 | 34.2 | 34.4 | 34.4 |
| 2400.00 | 22.8 | -27.7 | -16.2 | -31.1 | 1.2 | 0.7 | 22.2 | 24.5 | 1.2 | 33.4 | 34.1 | 32.5 | 32.5 | 32.9 | 32.6 | 32.5 |
| 2500.00 | 22.8 | -27.9 | -16.1 | -31.2 | 1.2 | 0.7 | 22.1 | 24.5 | 1.2 | 32.2 | 31.3 | 32.7 | 32.7 | 32.6 | 32.6 | 32.5 |
| 2600.00 | 22.8 | -27.9 | -15.7 | -28.6 | 1.2 | 0.7 | 22.0 | 24.6 | 1.2 | 34.3 | 32.7 | 32.1 | 32.9 | 32.5 | 32.6 | 32.5 |
| 2700.00 | 22.8 | -28.0 | -15.3 | -26.0 | 1.2 | 0.7 | 21.5 | 24.2 | 1.3 | 31.0 | 31.5 | 32.7 | 32.4 | 32.5 | 32.7 | 32.6 |
| 2800.00 | 22.8 | -28.1 | -14.9 | -23.8 | 1.2 | 0.7 | 21.4 | 23.9 | 1.3 | 33.4 | 31.3 | 31.8 | 32.2 | 32.0 | 32.1 | 31.9 |
| 2900.00 | 22.8 | -28.2 | -14.3 | -21.9 | 1.2 | 0.8 | 21.1 | 23.6 | 1.3 | 32.0 | | 32.6 | 32.4 | 32.5 | 32.4 | 32.3 |
| 3000.00 | 22.8 | -28.3 | -13.8 | -20.5 | 1.2 | 0.8 | 21.3 | 23.9 | 1.3 | 30.0 | 30.8 | 31.2 | 31.0 | 31.2 | 31.1 | 30.8 |
| 3100.00 | 22.8 | -28.3 | -13.2 | -19.6 | 1.2 | 0.8 | 21.3 | 24.1 | 1.3 | 31.7 | 30.7 | 30.9 | 30.9 | 31.1 | 30.9 | 30.7 |
| 3200.00 | 22.7 | -28.3 | -12.9 | -19.0 | 1.2 | 0.8 | 21.3 | 24.2 | 1.3 | 30.8 | 31.5 | 31.8 | 31.5 | 31.5 | 31.4 | 31.3 |
| 3300.00 | 22.7 | -28.3 | -12.6 | -18.6 | 1.2 | 0.8 | 21.3 | 24.1 | 1.3 | 30.4 | 30.6 | 30.6 | 30.9 | 31.0 | 30.9 | 30.9 |
| 3400.00 | 22.7 | -28.4 | -12.4 | -18.1 | 1.2 | 0.8 | 21.1 | 23.9 | 1.3 | 30.5 | 30.9 | 30.8 | 31.3 | 31.3 | 31.2 | 31.2 |
| 3500.00 | 22.7 | -28.4 | -12.3 | -18.0 | 1.2 | 0.8 | 21.2 | 23.9 | 1.3 | 28.9 | 31.0 | 30.6 | 30.7 | 30.8 | 30.8 | 30.7 |
| 3600.00 | 22.8 | -28.3 | -12.3 | -18.2 | 1.2 | 0.8 | 21.1 | 23.8 | 1.3 | 30.4 | 30.4 | 30.8 | 30.6 | 30.8 | 30.8 | 30.9 |
| 3700.00 | 22.8 | -28.4 | -12.3 | -18.4 | 1.2 | 0.8 | 21.1 | 24.2 | 1.3 | 31.1 | 30.6 | 31.0 | 31.5 | 31.7 | 31.7 | 31.9 |
| 3800.00 | 22.8 | -28.4 | -12.4 | -18.6 | 1.2 | 0.8 | 21.3 | 24.3 | 1.2 | 30.0 | 30.7 | 30.6 | 31.2 | 31.2 | 31.5 | 31.5 |
| 3900.00 | 22.8 | -28.5 | -12.4 | -18.9 | 1.2 | 0.8 | 21.7 | 24.3 | 1.2 | 30.1 | 30.8 | 30.9 | 30.8 | 31.0 | 31.2 | 31.2 |
| 4000.00 | 22.9 | -28.5 | -12.5 | -19.4 | 1.2 | 0.8 | 21.9 | 24.5 | 1.2 | 29.6 | 31.4 | 31.1 | 30.9 | 31.2 | 31.3 | 31.5 |
| 4100.00 | 22.9 | -28.5 | -12.8 | -20.1 | 1.2 | 0.8 | 22.2 | 24.6 | 1.2 | 29.4 | 29.8 | 30.0 | 30.5 | 30.6 | 30.9 | 31.0 |
| 4200.00 | 22.9 | -28.4 | -12.9 | -21.0 | 1.2 | 0.8 | 22.2 | 24.5 | 1.2 | 30.4 | 30.1 | 30.1 | 30.4 | 30.9 | 31.0 | 31.3 |
| 4300.00 | 22.9 | -28.6 | -13.2 | -21.5 | 1.2 | 0.8 | 22.2 | 24.6 | 1.2 | 30.4 | 30.2 | 30.4 | 31.1 | 31.1 | 31.2 | 31.4 |
| 4400.00 | 23.0 | -28.7 | -13.8 | -23.0 | 1.2 | 0.8 | 22.2 | 24.7 | 1.2 | 32.0 | 31.1 | 30.5 | 30.7 | 30.9 | 31.1 | 31.3 |
| 4500.00 | 23.0 | -28.6 | -14.0 | -24.2 | 1.2 | 0.8 | 22.2 | 25.0 | 1.2 | 29.7 | 30.2 | 30.6 | 30.8 | 30.6 | 30.9 | 31.0 |
| 4600.00 | 23.0 | -28.7 | -14.7 | -25.2 | 1.2 | 0.8 | 22.0 | 25.0 | 1.2 | 30.6 | 30.5 | 30.1 | 30.1 | 30.6 | 30.7 | 30.8 |
| 4700.00 | 23.1 | -28.7 | -15.2 | -28.0 | 1.2 | 0.8 | 22.0 | 24.9 | 1.2 | 29.2 | 29.2 | 30.1 | 30.2 | 30.5 | 30.6 | 30.8 |
| 4800.00 | 23.2 | -28.8 | -15.7 | -29.3 | 1.2 | 0.8 | 22.1 | 24.6 | 1.2 | 29.9 | 29.6 | 29.9 | 30.3 | 30.6 | 30.9 | 31.2 |
| 4900.00 | 23.1 | -28.9 | -16.7 | -29.6 | 1.2 | 0.8 | 21.8 | 24.6 | 1.2 | 29.1 | 28.8 | 29.3 | 29.6 | 29.6 | 29.9 | 30.1 |
| 5000.00 | 23.2 | -28.9 | -17.1 | -32.5 | 1.2 | 0.8 | 21.8 | 24.5 | 1.3 | 28.8 | 28.9 | 28.7 | 29.1 | 29.2 | 29.4 | 29.5 |
| 5100.00 | 23.3 | -29.0 | -18.2 | -33.3 | 1.2 | 0.8 | 22.0 | 24.3 | 1.2 | 28.2 | 28.3 | 28.4 | 28.7 | 29.0 | 29.3 | 29.6 |
| 5200.00 | 23.2 | -29.0 | -19.6 | -31.6 | 1.3 | 0.8 | 22.0 | 24.2 | 1.2 | 28.1 | 28.1 | 28.6 | 29.0 | 29.2 | 29.6 | 30.1 |
| 5300.00 | 23.4 | -29.0 | -20.0 | -33.5 | 1.2 | 0.8 | 22.1 | 24.6 | 1.2 | 29.3 | 28.5 | 29.1 | 29.2 | 29.7 | 29.9 | 30.4 |
| 5400.00 | 23.3 | -29.2 | -22.4 | -31.9 | 1.3 | 0.8 | 22.2 | 24.8 | 1.2 | 28.1 | 28.3 | 28.7 | 28.9 | 29.2 | 29.5 | 29.8 |
| 5500.00 | 23.4 | -29.2 | -23.3 | -30.8 | 1.3 | 0.8 | 22.0 | 24.7 | 1.2 | 28.0 | 28.3 | 28.4 | 28.6 | 29.0 | 29.3 | 29.5 |
| 5600.00 | 23.5 | -29.2 | -23.2 | -35.1 | 1.3 | 0.8 | 21.5 | 24.5 | 1.2 | 28.9 | 28.2 | 28.7 | 28.6 | 28.9 | 29.1 | 29.3 |
| 5700.00 | 23.4 | -29.4 | -26.5 | -31.2 | 1.3 | 0.8 | 21.3 | 24.4 | 1.2 | 27.5 | 28.3 | 28.4 | 28.6 | 28.8 | 29.1 | 29.2 |
| 5800.00 | 23.5 | -29.2 | -24.7 | -35.7 | 1.3 | 0.8 | 21.2 | 24.2 | 1.2 | 27.5 | 28.1 | 28.0 | 28.0 | 28.3 | 28.6 | 28.7 |
| 5900.00 | 23.5 | -29.5 | -22.0 | -32.7 | 1.3 | 0.8 | 21.0 | 24.2 | 1.3 | 26.9 | 27.4 | 27.5 | 27.8 | 28.0 | 28.3 | 28.4 |
| 6000.00 | 23.4 | -29.5 | -23.0 | -30.7 | 1.3 | 0.8 | 20.1 | 23.9 | 1.4 | 26.4 | 26.5 | 26.8 | 26.9 | 27.0 | 27.1 | 27.2 |
| 6100.00 | 23.6 | -29.4 | -19.3 | -30.5 | 1.3 | 0.8 | 20.1 | 23.6 | 1.2 | 26.1 | 26.4 | 26.3 | 26.4 | 26.6 | 26.9 | 27.2 |
| 6200.00 | 23.5 | -29.8 | -17.1 | -24.2 | 1.3 | 0.8 | 19.8 | 22.8 | 1.3 | 25.5 | 25.8 | 25.9 | 25.9 | 26.2 | 26.4 | 26.8 |
| 6300.00 | 23.5 | -29.6 | -16.9 | -24.6 | 1.3 | 0.8 | 19.7 | 22.3 | 1.3 | 25.5 | 25.7 | 25.7 | 25.9 | 26.3 | 26.7 | 27.2 |
| 6400.00 | 23.6 | -29.8 | -14.4 | -20.9 | 1.3 | 0.8 | 19.6 | 21.9 | 1.3 | 24.9 | 25.1 | 25.1 | 25.3 | 25.7 | 26.1 | 26.7 |
| 6500.00 | 23.4 | -30.3 | -13.4 | -18.6 | 1.3 | 0.8 | 19.7 | 21.8 | 1.4 | 25.1 | 25.2 | 25.2 | 25.5 | 25.8 | 26.2 | 26.7 |
| 6600.00 | 23.5 | -30.1 | -12.3 | -17.9 | 1.3 | 0.8 | 19.8 | 22.0 | 1.4 | 25.6 | 25.7 | 25.6 | 26.0 | 26.3 | 26.6 | 27.1 |
| 6700.00 | 23.5 | -30.6 | -10.4 | -15.4 | 1.3 | 0.8 | 19.7 | 21.8 | 1.4 | 25.0 | 25.1 | 25.2 | 25.4 | 25.8 | 26.1 | 26.6 |
| 6800.00 | 23.2 | -31.0 | -9.8 | -14.0 | 1.4 | 0.9 | 19.7 | 21.6 | 1.5 | 25.0 | 25.3 | 25.3 | 25.4 | 25.8 | 26.2 | 26.7 |
| 6900.00 | 23.2 | -31.1 | -8.6 | -12.9 | 1.3 | 0.9 | 19.7 | 21.5 | 1.5 | 24.2 | 24.5 | 24.7 | 25.0 | 25.4 | 25.8 | 26.4 |
| 7000.00 | 23.0 | -31.7 | -7.5 | -11.3 | 1.4 | 0.9 | 20.0 | 21.6 | 1.5 | 23.8 | 23.7 | 23.9 | 24.2 | 24.6 | 25.0 | 25.5 |
| 7100.00 | 22.6 | -32.3 | -7.1 | -10.5 | 1.5 | 0.9 | 20.1 | 21.5 | 1.5 | 23.8 | 24.0 | 24.2 | 24.4 | 24.8 | 25.2 | 25.6 |
| 7200.00 | 22.5 | -32.8 | -6.2 | -9.5 | 1.5 | 0.9 | 20.0 | 21.3 | 1.5 | 23.8 | 24.0 | 24.3 | 24.4 | 24.9 | 25.3 | 25.8 |
| 7300.00 | 22.0 | -34.0 | -5.5 | -8.3 | 1.6 | 0.9 | 20.1 | 21.0 | 1.6 | 23.1 | 23.4 | 23.5 | 23.8 | 24.2 | 24.7 | 25.1 |
| 7400.00 | 21.5 | -34.8 | -5.3 | -7.8 | 1.8 | 1.0 | 19.9 | 20.7 | 1.5 | 23.2 | 23.5 | 23.5 | 23.9 | 24.3 | 24.7 | 25.1 |
| 7500.00 | 20.9 | -36.0 | -4.6 | -6.9 | 1.9 | 1.0 | 19.5 | 20.1 | 1.7 | 22.0 | 22.3 | 22.5 | 22.8 | 23.3 | 23.6 | 23.7 |
| 7600.00 | 19.9 | -38.3 | -4.5 | -6.3 | 2.5 | 1.0 | 19.4 | 19.8 | 1.6 | 23.0 | 23.1 | 23.3 | 23.6 | 23.9 | 24.2 | 24.2 |
| 7700.00 | 19.2 | -39.5 | -4.5 | -6.1 | 3.0 | 1.0 | 19.1 | 19.5 | 1.7 | 22.5 | 22.6 | 22.8 | 23.1 | 23.5 | 23.7 | 23.6 |
| 7800.00 | 18.5 | -41.8 | -4.1 | -5.6 | 3.7 | 1.0 | 18.3 | 18.6 | 1.8 | 21.7 | 21.6 | 22.0 | 22.4 | 22.8 | 22.9 | 22.9 |
| 7900.00 | 17.3 | -45.1 | -4.5 | -5.1 | 6.0 | 0.9 | 17.4 | 17.7 | 1.8 | 21.1 | 21.2 | 21.6 | 22.0 | 22.3 | 22.2 | 22.5 |
| 8000.00 | 16.4 | -46.4 | -4.1 | -4.7 | 7.0 | 0.9 | 16.3 | 16.7 | 1.8 | 19.6 | 19.9 | 20.2 | 20.5 | 20.5 | 20.5 | 21.6 |

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 104 mA, $I_{EN}$ = 2.55 mA @ Temperature = - 45°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 45.4 | 45.3 | 45.3 | 45.1 | 45.0 | 44.8 | 44.4 |
| 1000.0 | 43.1 | 43.1 | 43.0 | 42.9 | 42.8 | 42.7 | 42.6 |
| 2000.0 | 40.2 | 40.0 | 40.0 | 39.9 | 39.9 | 40.0 | 40.0 |
| 4000.0 | 40.0 | 39.9 | 39.9 | 39.9 | 39.9 | 40.1 | 40.4 |
| 6000.0 | 30.8 | 30.7 | 30.6 | 30.5 | 30.5 | 30.5 | 30.7 |
| 8000.0 | 36.3 | 36.2 | 36.2 | 36.3 | 36.8 | 37.6 | 39.4 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 111 mA, $I_{EN}$ = 2.53 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 22.8 | -29.9 | -11.7 | -10.8 | 1.3 | 0.7 | 21.6 | 24.4 | 1.2 | 28.1 | 28.9 | 29.2 | 29.3 | 29.6 | 29.9 | 30.1 |
| 5600.00 | 22.9 | -29.9 | -11.5 | -11.0 | 1.3 | 0.7 | 21.3 | 24.3 | 1.1 | 27.6 | 28.5 | 28.1 | 28.2 | 28.6 | 28.7 | 28.8 |
| 5700.00 | 22.9 | -29.9 | -12.0 | -11.3 | 1.3 | 0.8 | 21.1 | 24.2 | 1.1 | 27.9 | 28.3 | 28.2 | 28.4 | 28.7 | 28.9 | 29.1 |
| 5800.00 | 23.0 | -30.0 | -11.7 | -11.4 | 1.3 | 0.8 | 21.0 | 24.1 | 1.1 | 27.2 | 28.6 | 28.0 | 28.3 | 28.5 | 28.8 | 28.9 |
| 5900.00 | 23.0 | -29.9 | -12.2 | -11.7 | 1.3 | 0.8 | 20.4 | 23.9 | 1.1 | 27.5 | 27.5 | 27.5 | 27.7 | 27.9 | 28.1 | 28.2 |
| 6000.00 | 23.1 | -30.1 | -11.8 | -11.7 | 1.3 | 0.8 | 19.4 | 23.2 | 1.1 | 25.7 | 25.8 | 25.9 | 26.1 | 26.3 | 26.4 | 26.3 |
| 6100.00 | 23.1 | -29.9 | -12.3 | -12.2 | 1.3 | 0.8 | 20.0 | 23.4 | 1.1 | 26.3 | 26.3 | 26.4 | 26.5 | 26.8 | 27.0 | 27.1 |
| 6200.00 | 23.3 | -30.0 | -12.0 | -12.1 | 1.3 | 0.8 | 20.1 | 23.1 | 1.1 | 25.8 | 25.4 | 25.6 | 25.8 | 26.0 | 26.3 | 26.5 |
| 6300.00 | 23.3 | -30.0 | -12.4 | -12.5 | 1.3 | 0.8 | 20.6 | 23.3 | 1.1 | 26.4 | 25.9 | 26.1 | 26.4 | 26.7 | 27.1 | 27.6 |
| 6400.00 | 23.4 | -30.2 | -12.1 | -12.3 | 1.3 | 0.8 | 20.6 | 23.2 | 1.1 | 26.0 | 25.8 | 26.1 | 26.3 | 26.6 | 27.1 | 27.7 |
| 6500.00 | 23.4 | -30.1 | -12.6 | -12.9 | 1.3 | 0.8 | 20.5 | 22.9 | 1.2 | 25.9 | 26.3 | 26.2 | 26.4 | 26.7 | 27.2 | 27.8 |
| 6600.00 | 23.5 | -30.4 | -12.5 | -12.7 | 1.3 | 0.8 | 20.7 | 23.0 | 1.2 | 26.0 | 26.4 | 26.3 | 26.5 | 26.9 | 27.4 | 28.0 |
| 6700.00 | 23.5 | -30.4 | -13.2 | -13.4 | 1.3 | 0.8 | 20.6 | 22.8 | 1.2 | 26.0 | 26.2 | 26.3 | 26.4 | 26.9 | 27.4 | 28.1 |
| 6800.00 | 23.6 | -30.6 | -13.1 | -13.2 | 1.3 | 0.8 | 20.8 | 22.7 | 1.2 | 26.9 | 26.3 | 26.5 | 26.7 | 27.1 | 27.7 | 28.4 |
| 6900.00 | 23.6 | -30.6 | -13.8 | -13.9 | 1.3 | 0.8 | 20.9 | 22.8 | 1.2 | 26.5 | 26.0 | 26.7 | 26.9 | 27.3 | 27.9 | 28.7 |
| 7000.00 | 23.7 | -30.8 | -13.8 | -13.8 | 1.4 | 0.8 | 21.0 | 22.8 | 1.2 | 25.7 | 25.6 | 26.2 | 26.5 | 26.9 | 27.5 | 28.3 |
| 7100.00 | 23.7 | -30.8 | -14.8 | -14.7 | 1.4 | 0.8 | 21.0 | 22.7 | 1.3 | 26.3 | 26.1 | 26.5 | 26.8 | 27.2 | 27.7 | 28.5 |
| 7200.00 | 23.8 | -31.2 | -14.9 | -14.6 | 1.4 | 0.8 | 21.1 | 22.8 | 1.3 | 26.0 | 26.2 | 26.3 | 26.6 | 27.0 | 27.6 | 28.5 |
| 7300.00 | 23.7 | -31.2 | -16.4 | -15.7 | 1.4 | 0.8 | 21.1 | 22.8 | 1.3 | 25.7 | 25.7 | 25.9 | 26.1 | 26.6 | 27.3 | 28.2 |
| 7400.00 | 23.8 | -31.6 | -16.6 | -15.7 | 1.5 | 0.8 | 21.4 | 22.9 | 1.4 | 25.6 | 25.9 | 25.8 | 26.1 | 26.7 | 27.3 | 28.2 |
| 7500.00 | 23.7 | -31.6 | -18.6 | -17.2 | 1.5 | 0.8 | 20.9 | 22.5 | 1.5 | 25.3 | 25.8 | 25.7 | 26.1 | 26.6 | 27.3 | 28.3 |
| 7600.00 | 23.8 | -32.1 | -18.3 | -17.1 | 1.5 | 0.9 | 21.0 | 22.4 | 1.5 | 25.6 | 24.9 | 25.6 | 26.0 | 26.5 | 27.1 | 28.0 |
| 7700.00 | 23.7 | -32.3 | -20.5 | -19.2 | 1.6 | 0.9 | 21.2 | 22.5 | 1.6 | 24.0 | 23.9 | 24.7 | 25.0 | 25.5 | 26.3 | 27.4 |
| 7800.00 | 23.7 | -33.0 | -18.2 | -19.3 | 1.7 | 0.9 | 20.8 | 22.1 | 1.6 | 24.8 | 24.9 | 25.3 | 25.6 | 26.2 | 26.9 | 27.9 |
| 7900.00 | 23.5 | -33.2 | -19.1 | -23.4 | 1.8 | 0.9 | 20.5 | 21.9 | 1.7 | 24.8 | 24.4 | 25.1 | 25.5 | 26.0 | 26.7 | 27.8 |
| 8000.00 | 23.4 | -34.3 | -15.4 | -22.9 | 2.0 | 0.9 | 20.0 | 21.5 | 1.9 | 23.9 | 24.2 | 24.4 | 24.8 | 25.5 | 26.4 | 27.7 |
| 8100.00 | 23.1 | -34.4 | -15.2 | -28.3 | 2.0 | 1.0 | 20.1 | 21.3 | 1.9 | 23.8 | 24.1 | 24.1 | 24.6 | 25.2 | 26.1 | 27.4 |
| 8200.00 | 22.7 | -36.2 | -11.5 | -20.2 | 2.4 | 1.0 | 19.8 | 21.0 | 2.1 | 22.5 | | 23.2 | 23.8 | 24.5 | 25.6 | 27.2 |
| 8300.00 | 22.4 | -35.9 | -11.4 | -19.5 | 2.4 | 1.0 | 19.8 | 20.9 | 2.2 | 23.0 | 22.8 | 23.4 | 24.0 | 24.7 | 25.7 | 27.3 |
| 8400.00 | 21.5 | -38.8 | -8.4 | -13.7 | 3.2 | 1.1 | 19.6 | 20.5 | 2.4 | 23.0 | 23.2 | 23.4 | 23.9 | 24.6 | 25.8 | 27.3 |
| 8500.00 | 21.3 | -38.4 | -8.0 | -12.8 | 3.1 | 1.1 | 19.1 | 20.0 | 2.5 | 21.6 | 21.6 | 22.1 | 22.6 | 23.5 | 24.8 | 26.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 38.5 | 38.4 | 38.3 | 38.2 | 38.2 | 38.1 | 38.2 |
| 6000.0 | 33.1 | 33.0 | 32.9 | 32.8 | 32.7 | 32.6 | 32.6 |
| 7000.0 | 41.7 | 41.6 | 41.4 | 41.2 | 41.1 | 41.0 | 41.2 |
| 8000.0 | 50.4 | 50.3 | 50.1 | 50.0 | 49.8 | 49.8 | 49.9 |
| 8500.0 | 59.8 | 59.6 | 59.4 | 59.2 | 59.2 | 59.3 | 59.8 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.6 | -3.7 | -3.9 | -8.5 | 1.1 | 0.8 | 2.6 |
| 300.00 | -2.3 | -2.3 | -6.6 | -11.3 | 1.0 | 0.6 | 1.6 |
| 400.00 | -1.7 | -1.7 | -9.2 | -13.5 | 1.0 | 0.5 | 1.1 |
| 500.00 | -1.4 | -1.4 | -11.8 | -15.3 | 1.0 | 0.5 | 1.0 |
| 600.00 | -1.2 | -1.2 | -14.7 | -16.9 | 1.0 | 0.4 | 0.8 |
| 700.00 | -1.2 | -1.2 | -18.0 | -18.2 | 1.0 | 0.4 | 0.9 |
| 800.00 | -1.1 | -1.2 | -22.0 | -18.5 | 1.0 | 0.4 | 0.9 |
| 900.00 | -1.1 | -1.1 | -27.4 | -18.3 | 1.0 | 0.4 | 0.9 |
| 1000.00 | -1.1 | -1.1 | -33.6 | -17.9 | 1.0 | 0.4 | 0.8 |
| 1100.00 | -1.1 | -1.1 | -28.2 | -17.5 | 1.0 | 0.4 | 0.8 |
| 1200.00 | -1.1 | -1.1 | -23.8 | -17.1 | 1.0 | 0.4 | 0.7 |
| 1300.00 | -1.1 | -1.2 | -21.0 | -16.6 | 1.0 | 0.4 | 0.6 |
| 1400.00 | -1.1 | -1.2 | -19.0 | -16.1 | 1.0 | 0.4 | 0.7 |
| 1500.00 | -1.2 | -1.2 | -17.5 | -15.6 | 1.0 | 0.4 | 0.8 |
| 1600.00 | -1.2 | -1.3 | -16.4 | -15.5 | 1.0 | 0.4 | 1.1 |
| 1700.00 | -1.2 | -1.3 | -15.6 | -15.5 | 1.0 | 0.4 | 0.9 |
| 1800.00 | -1.3 | -1.4 | -14.9 | -15.4 | 1.0 | 0.5 | 1.1 |
| 1900.00 | -1.3 | -1.4 | -14.4 | -15.2 | 1.0 | 0.5 | 0.9 |
| 2000.00 | -1.3 | -1.4 | -14.0 | -15.2 | 1.0 | 0.5 | 1.4 |
| 2100.00 | -1.3 | -1.5 | -13.9 | -15.4 | 1.0 | 0.5 | 0.8 |
| 2200.00 | -1.4 | -1.5 | -13.6 | -15.7 | 1.0 | 0.5 | 0.8 |
| 2300.00 | -1.4 | -1.5 | -13.5 | -15.9 | 1.0 | 0.5 | 0.9 |
| 2400.00 | -1.4 | -1.6 | -13.5 | -16.4 | 1.0 | 0.5 | 1.2 |
| 2500.00 | -1.4 | -1.6 | -13.5 | -16.9 | 1.0 | 0.5 | 1.3 |
| 2600.00 | -1.4 | -1.7 | -13.6 | -17.6 | 1.0 | 0.6 | 1.4 |
| 2700.00 | -1.5 | -1.7 | -13.7 | -18.5 | 1.0 | 0.6 | 1.5 |
| 2800.00 | -1.5 | -1.8 | -14.0 | -19.5 | 1.1 | 0.6 | 1.4 |
| 2900.00 | -1.5 | -1.9 | -14.2 | -20.5 | 1.1 | 0.6 | 1.1 |
| 3000.00 | -1.5 | -1.9 | -14.3 | -21.7 | 1.1 | 0.6 | 1.7 |
| 3100.00 | -1.5 | -1.9 | -14.3 | -23.5 | 1.1 | 0.6 | 1.6 |
| 3200.00 | -1.5 | -1.9 | -14.4 | -25.8 | 1.1 | 0.6 | 1.3 |
| 3300.00 | -1.5 | -1.8 | -14.3 | -28.0 | 1.1 | 0.6 | 1.7 |
| 3400.00 | -1.5 | -1.8 | -14.4 | -30.2 | 1.1 | 0.6 | 1.2 |
| 3500.00 | -1.6 | -1.8 | -14.4 | -30.9 | 1.1 | 0.6 | 1.3 |
| 3600.00 | -1.6 | -1.8 | -14.3 | -27.7 | 1.1 | 0.6 | 1.3 |
| 3700.00 | -1.6 | -1.8 | -14.2 | -25.0 | 1.1 | 0.6 | 1.1 |
| 3800.00 | -1.6 | -1.8 | -14.0 | -23.0 | 1.1 | 0.6 | 1.5 |
| 3900.00 | -1.6 | -1.8 | -13.8 | -21.2 | 1.1 | 0.6 | 1.4 |
| 4000.00 | -1.6 | -1.9 | -13.6 | -19.4 | 1.1 | 0.6 | 1.3 |
| 4100.00 | -1.6 | -1.9 | -13.3 | -18.0 | 1.1 | 0.6 | 1.0 |
| 4200.00 | -1.7 | -1.9 | -13.0 | -16.9 | 1.1 | 0.6 | 1.4 |
| 4300.00 | -1.7 | -1.9 | -12.7 | -16.0 | 1.1 | 0.6 | 1.3 |
| 4400.00 | -1.7 | -2.0 | -12.4 | -15.1 | 1.1 | 0.6 | 1.4 |
| 4500.00 | -1.7 | -2.0 | -12.1 | -14.5 | 1.1 | 0.6 | 1.4 |
| 4600.00 | -1.7 | -2.0 | -11.9 | -13.9 | 1.1 | 0.6 | 1.1 |
| 4700.00 | -1.8 | -2.0 | -11.7 | -13.4 | 1.1 | 0.6 | 1.1 |
| 4800.00 | -1.8 | -2.1 | -11.5 | -13.0 | 1.1 | 0.6 | 1.6 |
| 4900.00 | -1.8 | -2.1 | -11.4 | -12.7 | 1.1 | 0.6 | 1.9 |
| 5000.00 | -1.8 | -2.1 | -11.2 | -12.4 | 1.1 | 0.6 | 1.5 |
| 5100.00 | -1.8 | -2.2 | -11.1 | -12.1 | 1.1 | 0.6 | 1.1 |
| 5200.00 | -1.8 | -2.2 | -11.0 | -11.9 | 1.1 | 0.6 | 1.3 |
| 5300.00 | -1.8 | -2.2 | -11.0 | -11.9 | 1.1 | 0.6 | 1.7 |
| 5400.00 | -1.8 | -2.3 | -11.0 | -11.7 | 1.1 | 0.6 | 1.2 |
| 5500.00 | -1.8 | -2.2 | -10.9 | -11.4 | 1.1 | 0.6 | 1.1 |
| 5600.00 | -1.8 | -2.2 | -11.0 | -11.4 | 1.1 | 0.6 | 1.5 |
| 5700.00 | -1.8 | -2.2 | -11.1 | -11.4 | 1.1 | 0.6 | 1.7 |
| 5800.00 | -1.7 | -2.2 | -11.2 | -11.3 | 1.1 | 0.5 | 1.6 |
| 5900.00 | -1.7 | -2.2 | -11.4 | -11.5 | 1.1 | 0.6 | 1.4 |
| 6000.00 | -1.7 | -2.2 | -11.4 | -11.3 | 1.1 | 0.5 | 1.8 |
| 6100.00 | -1.6 | -2.1 | -11.7 | -11.5 | 1.1 | 0.5 | 1.1 |
| 6200.00 | -1.7 | -2.2 | -12.0 | -11.7 | 1.1 | 0.5 | 1.0 |
| 6300.00 | -1.6 | -2.1 | -12.1 | -11.6 | 1.1 | 0.5 | 1.4 |
| 6400.00 | -1.6 | -2.1 | -12.4 | -11.8 | 1.1 | 0.5 | 0.9 |
| 6500.00 | -1.7 | -2.2 | -12.6 | -11.8 | 1.1 | 0.5 | 1.4 |
| 6600.00 | -1.6 | -2.1 | -12.6 | -11.8 | 1.1 | 0.5 | 1.3 |
| 6700.00 | -1.6 | -2.1 | -13.0 | -12.1 | 1.1 | 0.5 | 1.7 |
| 6800.00 | -1.6 | -2.1 | -13.1 | -12.1 | 1.1 | 0.5 | 1.2 |
| 6900.00 | -1.6 | -2.1 | -13.1 | -12.1 | 1.1 | 0.5 | 1.2 |
| 7000.00 | -1.6 | -2.2 | -13.2 | -12.1 | 1.1 | 0.6 | 1.1 |
| 7100.00 | -1.7 | -2.2 | -13.0 | -11.9 | 1.1 | 0.6 | 1.6 |
| 7200.00 | -1.7 | -2.2 | -12.9 | -11.9 | 1.1 | 0.6 | 1.3 |
| 7300.00 | -1.7 | -2.3 | -12.8 | -11.7 | 1.1 | 0.6 | 1.7 |
| 7400.00 | -1.8 | -2.3 | -12.4 | -11.4 | 1.1 | 0.6 | 1.5 |
| 7500.00 | -1.8 | -2.4 | -12.1 | -11.2 | 1.1 | 0.6 | 1.4 |
| 7600.00 | -2.0 | -2.5 | -11.8 | -10.9 | 1.1 | 0.6 | 1.8 |
| 7700.00 | -2.0 | -2.5 | -11.1 | -10.5 | 1.1 | 0.6 | 1.2 |
| 7800.00 | -2.1 | -2.6 | -10.8 | -10.2 | 1.1 | 0.6 | 2.1 |
| 7900.00 | -2.3 | -2.8 | -10.3 | -9.6 | 1.1 | 0.6 | 2.1 |
| 8000.00 | -2.3 | -2.8 | -9.6 | -9.1 | 1.1 | 0.6 | 1.6 |

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 42.6 | 43.2 | 43.2 | 43.2 | 39.1 | 31.1 | 22.6 |
| 1000.0 | 42.2 | 44.0 | 45.1 | 40.5 | 30.6 | 21.3 | 16.4 |
| 2000.0 | 42.6 | 44.0 | 45.2 | 44.7 | 39.1 | 29.1 | 19.7 |
| 4000.0 | 40.8 | 41.8 | 42.4 | 43.2 | 43.5 | 41.0 | 32.3 |
| 6000.0 | 40.7 | 42.1 | 43.3 | 44.1 | 44.4 | 40.5 | 29.8 |
| 8000.0 | 43.7 | 44.2 | 44.8 | 45.4 | 45.4 | 41.4 | 30.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 69.6 | 69.4 | 69.2 | 69.0 | 68.6 | 66.8 | 57.2 |
| 1000.0 | 70.4 | 70.6 | 70.8 | 71.1 | 70.6 | 61.2 | 52.2 |
| 2000.0 | 69.8 | 69.8 | 69.8 | 69.9 | 70.0 | 68.3 | 57.3 |
| 4000.0 | 71.4 | 71.4 | 71.4 | 71.4 | 71.5 | 71.6 | 71.3 |
| 6000.0 | 74.5 | 74.5 | 74.2 | 74.0 | 73.7 | 73.1 | 71.0 |
| 8000.0 | 84.4 | 84.4 | 84.4 | 84.4 | 84.3 | 84.1 | 82.8 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 16.1 | 13.3 |
| 1000.0 | 13.7 | 11.5 |
| 2000.0 | 15.2 | 12.9 |
| 4000.0 | 17.8 | 15.3 |
| 6000.0 | 18.4 | 15.6 |
| 8000.0 | 18.3 | 14.9 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.5 | -2.0 | -21.1 | -18.5 | 1.1 | 0.6 | 1.5 |
| 5600.00 | -1.5 | -2.0 | -21.9 | -18.8 | 1.1 | 0.6 | 1.5 |
| 5700.00 | -1.5 | -2.0 | -21.6 | -18.7 | 1.1 | 0.6 | 1.7 |
| 5800.00 | -1.5 | -2.0 | -20.9 | -18.1 | 1.1 | 0.6 | 1.4 |
| 5900.00 | -1.5 | -2.0 | -19.7 | -17.4 | 1.1 | 0.6 | 1.1 |
| 6000.00 | -1.5 | -2.1 | -18.8 | -16.6 | 1.1 | 0.6 | 1.0 |
| 6100.00 | -1.5 | -2.1 | -17.4 | -15.6 | 1.1 | 0.6 | 1.4 |
| 6200.00 | -1.5 | -2.1 | -16.5 | -14.8 | 1.1 | 0.6 | 1.4 |
| 6300.00 | -1.6 | -2.1 | -15.3 | -13.9 | 1.1 | 0.6 | 1.3 |
| 6400.00 | -1.6 | -2.2 | -14.4 | -13.2 | 1.1 | 0.6 | 1.4 |
| 6500.00 | -1.6 | -2.2 | -13.5 | -12.4 | 1.1 | 0.6 | 1.1 |
| 6600.00 | -1.7 | -2.3 | -12.7 | -11.8 | 1.1 | 0.6 | 1.1 |
| 6700.00 | -1.8 | -2.4 | -11.8 | -11.1 | 1.1 | 0.6 | 1.4 |
| 6800.00 | -1.8 | -2.5 | -11.1 | -10.6 | 1.1 | 0.6 | 1.5 |
| 6900.00 | -1.9 | -2.6 | -10.4 | -9.9 | 1.1 | 0.6 | 1.0 |
| 7000.00 | -2.0 | -2.7 | -9.8 | -9.4 | 1.1 | 0.6 | 1.7 |
| 7100.00 | -2.2 | -2.8 | -9.1 | -8.8 | 1.1 | 0.6 | 1.4 |
| 7200.00 | -2.3 | -2.9 | -8.6 | -8.3 | 1.1 | 0.6 | 1.5 |
| 7300.00 | -2.4 | -3.0 | -8.0 | -7.8 | 1.1 | 0.6 | 1.5 |
| 7400.00 | -2.6 | -3.2 | -7.5 | -7.4 | 1.1 | 0.6 | 1.7 |
| 7500.00 | -2.7 | -3.3 | -7.0 | -6.9 | 1.1 | 0.6 | 1.7 |
| 7600.00 | -2.9 | -3.5 | -6.6 | -6.6 | 1.1 | 0.6 | 1.6 |
| 7700.00 | -3.1 | -3.7 | -6.1 | -6.1 | 1.1 | 0.6 | 1.1 |
| 7800.00 | -3.3 | -3.8 | -5.8 | -5.9 | 1.1 | 0.6 | 1.9 |
| 7900.00 | -3.5 | -4.0 | -5.4 | -5.5 | 1.1 | 0.6 | 1.8 |
| 8000.00 | -3.7 | -4.2 | -5.2 | -5.3 | 1.1 | 0.6 | 2.1 |
| 8100.00 | -3.8 | -4.4 | -4.8 | -4.9 | 1.1 | 0.5 | 1.7 |
| 8200.00 | -4.1 | -4.6 | -4.6 | -4.8 | 1.1 | 0.5 | 2.0 |
| 8300.00 | -4.2 | -4.8 | -4.2 | -4.4 | 1.1 | 0.5 | 1.5 |
| 8400.00 | -4.5 | -5.0 | -4.1 | -4.3 | 1.1 | 0.5 | 1.4 |
| 8500.00 | -4.6 | -5.1 | -3.8 | -4.0 | 1.1 | 0.5 | 2.1 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 17.4 | 14.7 |
| 6000.0 | 18.9 | 15.5 |
| 7000.0 | 20.5 | 16.8 |
| 8000.0 | 21.0 | 15.2 |
| 8500.0 | 19.4 | 14.0 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 71.0 | 71.0 | 70.8 | 70.5 | 70.2 | 69.4 | 66.9 | 40.0 | 41.2 | 41.7 | 41.0 | 41.3 | 41.2 | 37.8 |
| 6000.0 | 77.5 | 77.5 | 77.4 | 77.3 | 77.1 | 76.8 | 76.2 | 39.6 | 40.0 | 40.7 | 42.1 | 42.0 | 41.4 | 33.7 |
| 7000.0 | 90.5 | 90.4 | 90.3 | 90.2 | 89.9 | 89.6 | 89.0 | 38.4 | 39.0 | 39.8 | 42.0 | 42.1 | 41.3 | 34.3 |
| 8000.0 | 84.4 | 84.5 | 84.4 | 84.4 | 84.3 | 84.2 | 84.2 | 39.9 | 41.6 | 42.1 | 39.9 | 40.0 | 39.8 | 38.6 |
| 8500.0 | 91.0 | 91.0 | 90.8 | 90.7 | 90.5 | 92.1 | 89.3 | 40.7 | 41.7 | 43.1 | 44.5 | 46.6 | 35.1 | 21.6 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 111 mA, $I_{EN}$ = 2.65 mA @ Temperature = - 45°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 16.0 | -34.1 | -1.8 | -4.0 | 1.4 | 0.9 | 21.2 | 23.2 | 3.7 | 35.2 | 37.6 | 35.7 | 36.8 | 36.6 | 36.1 | 35.5 |
| 300.00 | 20.9 | -29.1 | -5.9 | -8.1 | 1.2 | 0.8 | 21.3 | 23.1 | 1.8 | 31.7 | 34.6 | 35.0 | 36.7 | 37.0 | 36.5 | 35.7 |
| 400.00 | 22.4 | -27.5 | -12.6 | -13.1 | 1.1 | 0.7 | 21.8 | 23.5 | 1.4 | 34.7 | 38.4 | 36.3 | 37.9 | 38.5 | 38.0 | 37.2 |
| 500.00 | 22.6 | -27.3 | -17.2 | -13.9 | 1.1 | 0.6 | 22.1 | 23.7 | 1.2 | 34.8 | 35.7 | 37.0 | 37.9 | 39.5 | 38.4 | 38.1 |
| 600.00 | 22.7 | -27.3 | -15.8 | -12.8 | 1.1 | 0.6 | 22.5 | 23.9 | 1.1 | 34.9 | 34.8 | 39.4 | 38.8 | 39.0 | 39.0 | 38.6 |
| 700.00 | 22.6 | -27.4 | -14.1 | -12.1 | 1.1 | 0.6 | 22.6 | 24.0 | 1.1 | 35.7 | 38.6 | 38.7 | 38.5 | 38.0 | 38.3 | 37.5 |
| 800.00 | 22.6 | -27.4 | -13.3 | -11.8 | 1.1 | 0.6 | 22.8 | 24.1 | 1.1 | 33.5 | 35.2 | 38.4 | 39.2 | 39.0 | 38.6 | 38.3 |
| 900.00 | 22.6 | -27.4 | -12.9 | -11.7 | 1.1 | 0.6 | 22.9 | 24.2 | 1.1 | 34.9 | 36.3 | 38.4 | 36.8 | 37.8 | 38.2 | 37.9 |
| 1000.00 | 22.6 | -27.5 | -12.8 | -11.8 | 1.1 | 0.6 | 23.0 | 24.3 | 1.1 | 34.0 | 35.5 | 36.6 | 37.3 | 37.5 | 37.8 | 37.9 |
| 1100.00 | 22.6 | -27.5 | -12.8 | -12.0 | 1.1 | 0.6 | 22.9 | 24.3 | 1.1 | 34.1 | 37.1 | 38.7 | 37.5 | 38.1 | 38.1 | 37.9 |
| 1200.00 | 22.7 | -27.5 | -13.0 | -12.4 | 1.1 | 0.6 | 23.0 | 24.4 | 1.1 | 34.5 | 35.9 | 35.9 | 36.8 | 37.4 | 37.2 | 37.2 |
| 1300.00 | 22.7 | -27.5 | -13.3 | -12.8 | 1.1 | 0.6 | 23.0 | 24.4 | 1.0 | 34.9 | 35.0 | 36.6 | 37.1 | 36.7 | 36.9 | 37.0 |
| 1400.00 | 22.7 | -27.5 | -13.7 | -13.4 | 1.1 | 0.6 | 23.0 | 24.4 | 1.0 | 35.3 | 37.2 | 35.6 | 36.0 | 36.7 | 37.0 | 37.0 |
| 1500.00 | 22.7 | -27.5 | -14.2 | -14.2 | 1.1 | 0.6 | 22.8 | 24.4 | 1.0 | 32.6 | 35.5 | 35.8 | 36.1 | 35.9 | 36.2 | 36.1 |
| 1600.00 | 22.7 | -27.6 | -14.7 | -15.0 | 1.1 | 0.7 | 23.0 | 24.5 | 1.1 | 35.1 | 35.6 | 35.4 | 35.7 | 35.6 | 36.1 | 36.0 |
| 1700.00 | 22.8 | -27.6 | -15.0 | -15.7 | 1.1 | 0.7 | 23.0 | 24.6 | 1.1 | 32.9 | 36.2 | 35.8 | 35.3 | 35.9 | 35.8 | 36.0 |
| 1800.00 | 22.8 | -27.6 | -15.6 | -17.0 | 1.1 | 0.7 | 22.9 | 24.5 | 1.1 | 33.7 | 33.6 | 35.1 | 35.0 | 35.5 | 35.7 | 35.7 |
| 1900.00 | 22.9 | -27.6 | -16.2 | -18.6 | 1.1 | 0.7 | 22.8 | 24.5 | 1.1 | 33.8 | 33.1 | 34.3 | 34.9 | 35.0 | 35.1 | 35.3 |
| 2000.00 | 22.9 | -27.6 | -16.7 | -20.4 | 1.1 | 0.7 | 22.6 | 24.4 | 1.1 | 32.5 | 36.6 | 35.1 | 35.3 | 35.3 | 35.4 | 35.5 |
| 2100.00 | 22.9 | -27.7 | -16.8 | -22.3 | 1.1 | 0.7 | 22.9 | 24.6 | 1.2 | 34.2 | 35.0 | 34.8 | 34.1 | 34.8 | 35.2 | 35.4 |
| 2200.00 | 22.9 | -27.7 | -16.9 | -24.7 | 1.2 | 0.7 | 22.9 | 24.6 | 1.2 | 30.9 | 33.7 | 34.3 | 34.5 | 34.9 | 35.1 | 35.3 |
| 2300.00 | 22.9 | -27.8 | -16.8 | -27.5 | 1.2 | 0.7 | 22.8 | 24.7 | 1.2 | 32.0 | 31.8 | 34.1 | 34.2 | 34.7 | 34.9 | 35.2 |
| 2400.00 | 22.9 | -27.8 | -16.5 | -30.0 | 1.2 | 0.7 | 22.6 | 24.8 | 1.2 | 31.9 | 33.0 | 32.2 | 33.1 | 33.3 | 33.5 | 33.5 |
| 2500.00 | 22.9 | -27.9 | -16.4 | -31.2 | 1.2 | 0.7 | 22.5 | 24.9 | 1.2 | 31.8 | 33.9 | 32.2 | 33.1 | 33.1 | 33.4 | 33.4 |
| 2600.00 | 22.9 | -27.9 | -16.1 | -29.3 | 1.2 | 0.7 | 22.4 | 24.9 | 1.2 | 32.3 | 32.7 | 33.2 | 33.3 | 33.3 | 33.4 | 33.4 |
| 2700.00 | 22.9 | -28.1 | -15.7 | -26.7 | 1.2 | 0.7 | 22.0 | 24.5 | 1.3 | 33.1 | 33.9 | 33.9 | 32.9 | 33.4 | 33.4 | 33.4 |
| 2800.00 | 22.9 | -28.2 | -15.2 | -24.4 | 1.2 | 0.7 | 21.8 | 24.2 | 1.3 | 31.9 | 31.0 | 31.5 | 32.6 | 32.7 | 32.9 | 32.9 |
| 2900.00 | 22.9 | -28.3 | -14.6 | -22.4 | 1.2 | 0.7 | 21.5 | 24.0 | 1.4 | 31.1 | | 33.5 | 32.7 | 33.1 | 33.3 | 33.2 |
| 3000.00 | 22.9 | -28.4 | -14.0 | -21.0 | 1.2 | 0.8 | 21.7 | 24.2 | 1.3 | 33.9 | 31.5 | 31.3 | 31.5 | 31.8 | 31.9 | 31.8 |
| 3100.00 | 22.9 | -28.3 | -13.5 | -20.0 | 1.2 | 0.8 | 21.7 | 24.5 | 1.3 | 30.8 | 31.2 | 31.3 | 31.5 | 31.8 | 31.7 | 31.6 |
| 3200.00 | 22.8 | -28.4 | -13.1 | -19.4 | 1.2 | 0.8 | 21.7 | 24.6 | 1.3 | 30.7 | 31.3 | 32.1 | 32.0 | 32.2 | 32.2 | 32.3 |
| 3300.00 | 22.9 | -28.3 | -12.8 | -19.0 | 1.2 | 0.7 | 21.7 | 24.5 | 1.3 | 30.2 | 30.7 | 31.2 | 31.5 | 31.6 | 31.7 | 31.8 |
| 3400.00 | 22.9 | -28.4 | -12.6 | -18.5 | 1.2 | 0.7 | 21.5 | 24.2 | 1.2 | 30.1 | 31.1 | 31.6 | 31.3 | 31.8 | 32.0 | 32.1 |
| 3500.00 | 22.9 | -28.4 | -12.5 | -18.4 | 1.2 | 0.7 | 21.7 | 24.3 | 1.3 | 31.0 | 31.8 | 30.9 | 31.2 | 31.3 | 31.5 | 31.6 |
| 3600.00 | 22.9 | -28.5 | -12.5 | -18.7 | 1.2 | 0.8 | 21.6 | 24.2 | 1.2 | 30.4 | 31.0 | 31.2 | 31.2 | 31.4 | 31.5 | 31.7 |
| 3700.00 | 22.9 | -28.5 | -12.4 | -18.9 | 1.2 | 0.8 | 21.6 | 24.5 | 1.3 | 31.5 | 30.7 | 31.6 | 31.7 | 32.1 | 32.4 | 32.7 |
| 3800.00 | 22.9 | -28.5 | -12.6 | -19.1 | 1.2 | 0.8 | 21.8 | 24.6 | 1.2 | 30.5 | 29.8 | 31.2 | 31.4 | 31.7 | 32.0 | 32.2 |
| 3900.00 | 22.9 | -28.5 | -12.6 | -19.3 | 1.2 | 0.8 | 22.1 | 24.7 | 1.2 | 29.5 | 30.8 | 31.0 | 31.0 | 31.5 | 31.8 | 32.0 |
| 4000.00 | 23.0 | -28.5 | -12.7 | -19.9 | 1.2 | 0.8 | 22.3 | 24.8 | 1.2 | 29.2 | 31.0 | 30.9 | 31.1 | 31.6 | 31.9 | 32.2 |
| 4100.00 | 23.0 | -28.6 | -13.0 | -20.7 | 1.2 | 0.8 | 22.6 | 25.0 | 1.2 | 30.7 | 29.8 | 30.5 | 30.9 | 31.2 | 31.4 | 31.7 |
| 4200.00 | 23.0 | -28.5 | -13.1 | -21.6 | 1.2 | 0.8 | 22.6 | 24.9 | 1.2 | 29.1 | 30.1 | 30.6 | 31.0 | 31.3 | 31.6 | 32.0 |
| 4300.00 | 23.1 | -28.6 | -13.4 | -22.1 | 1.2 | 0.8 | 22.6 | 25.0 | 1.2 | 29.9 | 30.7 | 30.8 | 31.0 | 31.4 | 31.8 | 32.1 |
| 4400.00 | 23.1 | -28.7 | -13.9 | -23.8 | 1.2 | 0.8 | 22.6 | 25.1 | 1.2 | 30.0 | 29.5 | 30.7 | 31.0 | 31.3 | 31.6 | 32.0 |
| 4500.00 | 23.1 | -28.6 | -14.2 | -25.1 | 1.2 | 0.8 | 22.6 | 25.3 | 1.2 | 29.3 | 29.8 | 30.8 | 31.0 | 31.2 | 31.4 | 31.7 |
| 4600.00 | 23.1 | -28.7 | -14.9 | -26.3 | 1.2 | 0.8 | 22.4 | 25.3 | 1.2 | 29.2 | 29.5 | 30.8 | 30.5 | 30.9 | 31.2 | 31.5 |
| 4700.00 | 23.2 | -28.8 | -15.4 | -29.6 | 1.2 | 0.8 | 22.4 | 25.1 | 1.2 | 29.5 | 30.1 | 30.6 | 30.5 | 30.8 | 31.2 | 31.5 |
| 4800.00 | 23.3 | -28.8 | -15.9 | -31.4 | 1.2 | 0.8 | 22.5 | 24.9 | 1.2 | 29.6 | 29.4 | 30.3 | 30.7 | 31.1 | 31.2 | 31.8 |
| 4900.00 | 23.2 | -28.9 | -17.0 | -31.9 | 1.2 | 0.8 | 22.2 | 24.9 | 1.2 | 29.4 | 29.3 | 29.5 | 29.9 | 30.2 | 30.5 | 30.8 |
| 5000.00 | 23.3 | -28.9 | -17.3 | -35.4 | 1.2 | 0.8 | 22.2 | 24.8 | 1.3 | 28.9 | 28.8 | 29.1 | 29.4 | 29.6 | 29.9 | 30.3 |
| 5100.00 | 23.4 | -29.1 | -18.5 | -36.5 | 1.2 | 0.8 | 22.4 | 24.6 | 1.2 | 29.1 | 28.7 | 28.8 | 29.1 | 29.3 | 29.8 | 30.2 |
| 5200.00 | 23.3 | -29.0 | -19.9 | -32.8 | 1.2 | 0.8 | 22.4 | 24.6 | 1.2 | 29.2 | 29.1 | 28.8 | 29.2 | 29.7 | 30.0 | 30.6 |
| 5300.00 | 23.5 | -29.1 | -20.3 | -35.0 | 1.2 | 0.8 | 22.5 | 24.9 | 1.2 | 28.9 | 28.9 | 29.4 | 29.5 | 29.9 | 30.3 | 30.8 |
| 5400.00 | 23.4 | -29.3 | -22.9 | -33.8 | 1.3 | 0.8 | 22.6 | 25.0 | 1.2 | 28.7 | 28.8 | 28.9 | 29.1 | 29.5 | 29.9 | 30.4 |
| 5500.00 | 23.5 | -29.2 | -23.7 | -31.3 | 1.3 | 0.8 | 22.4 | 25.0 | 1.2 | 29.3 | 28.1 | 28.7 | 28.9 | 29.3 | 29.7 | 30.1 |
| 5600.00 | 23.6 | -29.4 | -23.7 | -36.3 | 1.3 | 0.8 | 21.9 | 24.7 | 1.2 | 28.0 | 28.4 | 28.7 | 29.0 | 29.3 | 29.6 | 29.9 |
| 5700.00 | 23.4 | -29.5 | -27.1 | -33.5 | 1.3 | 0.8 | 21.7 | 24.6 | 1.3 | 27.9 | 28.3 | 28.5 | 28.8 | 29.2 | 29.5 | 29.9 |
| 5800.00 | 23.6 | -29.3 | -25.1 | -38.4 | 1.3 | 0.8 | 21.5 | 24.4 | 1.3 | 27.6 | 27.7 | 28.4 | 28.4 | 28.8 | 29.1 | 29.4 |
| 5900.00 | 23.6 | -29.5 | -22.2 | -36.0 | 1.3 | 0.8 | 21.4 | 24.4 | 1.3 | 27.9 | 27.9 | 28.1 | 28.1 | 28.4 | 28.8 | 29.1 |
| 6000.00 | 23.5 | -29.5 | -23.1 | -33.7 | 1.3 | 0.8 | 20.5 | 23.9 | 1.3 | 26.2 | 27.1 | 27.0 | 27.3 | 27.4 | 27.7 | 27.9 |
| 6100.00 | 23.7 | -29.4 | -19.4 | -31.5 | 1.3 | 0.8 | 20.6 | 23.6 | 1.2 | 26.6 | 26.7 | 26.6 | 26.9 | 27.1 | 27.4 | 27.7 |
| 6200.00 | 23.6 | -29.8 | -17.1 | -24.6 | 1.3 | 0.8 | 20.3 | 22.8 | 1.3 | 25.3 | 26.0 | 25.9 | 26.3 | 26.5 | 26.9 | 27.3 |
| 6300.00 | 23.6 | -29.7 | -16.8 | -25.0 | 1.3 | 0.8 | 20.1 | 22.4 | 1.3 | 25.2 | 26.0 | 26.3 | 26.3 | 26.6 | 27.0 | 27.6 |
| 6400.00 | 23.7 | -29.9 | -14.3 | -21.0 | 1.3 | 0.8 | 20.0 | 22.1 | 1.4 | 25.0 | 25.1 | 25.4 | 25.6 | 26.0 | 26.5 | 27.1 |
| 6500.00 | 23.5 | -30.3 | -13.3 | -18.7 | 1.3 | 0.8 | 20.1 | 22.1 | 1.4 | 25.1 | 25.4 | 25.6 | 25.7 | 26.1 | 26.6 | 27.2 |
| 6600.00 | 23.6 | -30.2 | -12.2 | -17.9 | 1.3 | 0.8 | 20.3 | 22.3 | 1.4 | 25.0 | 25.7 | 26.0 | 26.2 | 26.5 | 26.9 | 27.6 |
| 6700.00 | 23.6 | -30.6 | -10.3 | -15.3 | 1.3 | 0.8 | 20.1 | 22.0 | 1.4 | 24.5 | 25.4 | 25.5 | 25.7 | 26.1 | 26.5 | 27.1 |
| 6800.00 | 23.3 | -31.0 | -9.7 | -14.0 | 1.4 | 0.9 | 20.1 | 21.9 | 1.5 | 24.8 | 25.4 | 25.4 | 25.7 | 26.1 | 26.5 | 27.1 |
| 6900.00 | 23.3 | -31.2 | -8.5 | -12.8 | 1.3 | 0.9 | 20.1 | 21.8 | 1.5 | 23.8 | 24.8 | 24.9 | 25.2 | 25.6 | 26.2 | 26.8 |
| 7000.00 | 23.1 | -31.8 | -7.4 | -11.2 | 1.4 | 0.9 | 20.5 | 21.9 | 1.5 | 24.1 | 23.8 | 24.1 | 24.4 | 24.9 | 25.4 | 26.1 |
| 7100.00 | 22.7 | -32.4 | -7.1 | -10.5 | 1.5 | 0.9 | 20.6 | 21.7 | 1.5 | 24.2 | 24.0 | 24.4 | 24.7 | 25.1 | 25.6 | 26.2 |
| 7200.00 | 22.5 | -32.9 | -6.1 | -9.4 | 1.5 | 0.9 | 20.5 | 21.4 | 1.6 | 24.3 | 24.2 | 24.4 | 24.7 | 25.1 | 25.7 | 26.3 |
| 7300.00 | 22.0 | -34.0 | -5.4 | -8.3 | 1.6 | 0.9 | 20.4 | 21.1 | 1.6 | 23.3 | 23.5 | 23.8 | 24.1 | 24.6 | 25.1 | 25.7 |
| 7400.00 | 21.5 | -34.9 | -5.2 | -7.8 | 1.8 | 1.0 | 20.2 | 20.7 | 1.6 | 23.9 | 23.5 | 23.7 | 24.1 | 24.6 | 25.1 | 25.8 |
| 7500.00 | 21.0 | -36.2 | -4.5 | -6.9 | 1.9 | 1.0 | 19.7 | 20.1 | 1.7 | 22.6 | 22.5 | 22.8 | 23.2 | 23.7 | 24.2 | 24.5 |
| 7600.00 | 20.0 | -38.3 | -4.4 | -6.3 | 2.5 | 1.0 | 19.5 | 19.8 | 1.7 | 22.9 | 23.4 | 23.6 | 23.9 | 24.3 | 24.8 | 25.1 |
| 7700.00 | 19.2 | -39.5 | -4.4 | -6.1 | 2.9 | 1.0 | 19.2 | 19.4 | 1.7 | 22.5 | 22.9 | 23.1 | 23.5 | 23.9 | 24.3 | 24.4 |
| 7800.00 | 18.5 | -42.1 | -4.1 | -5.5 | 3.8 | 1.0 | 18.3 | 18.6 | 1.7 | 21.9 | 21.9 | 22.3 | 22.7 | 23.2 | 23.6 | 23.6 |
| 7900.00 | 17.3 | -45.2 | -4.5 | -5.1 | 6.1 | 0.9 | 17.4 | 17.6 | 1.9 | 21.2 | 21.5 | 21.9 | 22.3 | 22.8 | 23.1 | 23.0 |
| 8000.00 | 16.4 | -46.5 | -4.1 | -4.7 | 7.1 | 0.9 | 16.3 | 16.5 | 1.8 | 20.5 | 20.2 | 20.6 | 21.0 | 21.3 | 21.1 | 21.8 |

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 111 mA, $I_{EN}$ = 2.65 mA @ Temperature = - 45°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 46.8 | 46.6 | 46.6 | 46.5 | 46.4 | 46.2 | 45.7 |
| 1000.0 | 44.4 | 44.4 | 44.2 | 44.1 | 44.1 | 43.9 | 43.8 |
| 2000.0 | 41.1 | 41.0 | 40.9 | 40.9 | 40.8 | 40.9 | 41.0 |
| 4000.0 | 40.5 | 40.4 | 40.4 | 40.3 | 40.3 | 40.5 | 40.8 |
| 6000.0 | 31.3 | 31.2 | 31.1 | 31.0 | 31.0 | 31.0 | 31.1 |
| 8000.0 | 37.0 | 36.9 | 36.7 | 36.8 | 37.2 | 38.0 | 39.7 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 119 mA, $I_{EN}$ = 2.63 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 22.9 | -29.8 | -11.7 | -11.0 | 1.3 | 0.7 | 22.0 | 24.5 | 1.2 | 29.0 | 29.0 | 29.1 | 29.6 | 30.1 | 30.3 | 30.7 |
| 5600.00 | 23.0 | -29.9 | -11.5 | -11.1 | 1.3 | 0.7 | 21.7 | 24.4 | 1.1 | 27.8 | 28.1 | 28.3 | 28.5 | 28.9 | 29.3 | 29.5 |
| 5700.00 | 22.9 | -29.8 | -12.0 | -11.4 | 1.3 | 0.7 | 21.5 | 24.3 | 1.1 | 27.2 | 28.1 | 28.3 | 28.7 | 29.0 | 29.4 | 29.7 |
| 5800.00 | 23.1 | -29.9 | -11.7 | -11.5 | 1.3 | 0.7 | 21.5 | 24.3 | 1.1 | 27.3 | 28.2 | 28.4 | 28.5 | 28.9 | 29.2 | 29.5 |
| 5900.00 | 23.1 | -29.8 | -12.2 | -11.9 | 1.3 | 0.7 | 20.8 | 24.0 | 1.1 | 28.3 | 27.7 | 27.9 | 28.1 | 28.4 | 28.7 | 28.9 |
| 6000.00 | 23.2 | -30.0 | -11.8 | -11.8 | 1.3 | 0.8 | 19.9 | 23.3 | 1.1 | 26.2 | 26.0 | 26.3 | 26.5 | 26.8 | 27.0 | 27.1 |
| 6100.00 | 23.2 | -29.9 | -12.3 | -12.3 | 1.3 | 0.8 | 20.4 | 23.4 | 1.1 | 26.1 | 27.1 | 26.6 | 27.0 | 27.2 | 27.5 | 27.7 |
| 6200.00 | 23.4 | -30.0 | -12.0 | -12.2 | 1.3 | 0.8 | 20.4 | 23.1 | 1.1 | 25.6 | 26.0 | 25.9 | 26.1 | 26.4 | 26.8 | 27.1 |
| 6300.00 | 23.4 | -30.0 | -12.4 | -12.6 | 1.3 | 0.8 | 20.9 | 23.4 | 1.2 | 26.2 | 26.2 | 26.6 | 26.8 | 27.1 | 27.5 | 28.0 |
| 6400.00 | 23.5 | -30.1 | -12.1 | -12.3 | 1.3 | 0.8 | 21.0 | 23.3 | 1.1 | 26.3 | 26.6 | 26.3 | 26.5 | 26.9 | 27.4 | 28.0 |
| 6500.00 | 23.5 | -30.1 | -12.6 | -12.9 | 1.3 | 0.8 | 20.9 | 23.1 | 1.2 | 26.2 | 26.4 | 26.2 | 26.6 | 27.0 | 27.5 | 28.2 |
| 6600.00 | 23.6 | -30.4 | -12.4 | -12.7 | 1.3 | 0.8 | 21.1 | 23.2 | 1.2 | 26.1 | 26.1 | 26.6 | 26.9 | 27.2 | 27.7 | 28.4 |
| 6700.00 | 23.6 | -30.3 | -13.1 | -13.3 | 1.3 | 0.8 | 21.0 | 23.0 | 1.2 | 26.2 | 26.1 | 26.4 | 26.7 | 27.1 | 27.7 | 28.4 |
| 6800.00 | 23.7 | -30.5 | -13.0 | -13.1 | 1.3 | 0.8 | 21.1 | 23.0 | 1.2 | 26.4 | 26.5 | 26.6 | 27.0 | 27.3 | 27.9 | 28.7 |
| 6900.00 | 23.7 | -30.4 | -13.7 | -13.7 | 1.3 | 0.8 | 21.2 | 23.0 | 1.2 | 26.1 | 26.6 | 26.7 | 27.0 | 27.5 | 28.1 | 28.9 |
| 7000.00 | 23.8 | -30.8 | -13.7 | -13.6 | 1.3 | 0.8 | 21.3 | 23.0 | 1.2 | 25.8 | 26.7 | 26.3 | 26.6 | 27.1 | 27.7 | 28.5 |
| 7100.00 | 23.8 | -30.7 | -14.7 | -14.4 | 1.3 | 0.8 | 21.3 | 23.0 | 1.3 | 26.3 | 26.2 | 26.5 | 26.9 | 27.3 | 27.9 | 28.7 |
| 7200.00 | 23.9 | -31.1 | -14.8 | -14.3 | 1.4 | 0.8 | 21.5 | 23.1 | 1.3 | 26.2 | 26.0 | 26.5 | 26.7 | 27.2 | 27.8 | 28.6 |
| 7300.00 | 23.8 | -31.1 | -16.3 | -15.3 | 1.4 | 0.8 | 21.5 | 23.1 | 1.3 | 25.5 | 25.8 | 25.9 | 26.2 | 26.8 | 27.5 | 28.4 |
| 7400.00 | 23.9 | -31.5 | -16.3 | -15.3 | 1.4 | 0.8 | 21.8 | 23.2 | 1.4 | 25.7 | 25.9 | 25.8 | 26.3 | 26.7 | 27.5 | 28.4 |
| 7500.00 | 23.8 | -31.7 | -18.3 | -16.6 | 1.5 | 0.8 | 21.2 | 22.8 | 1.5 | 25.6 | 25.3 | 25.9 | 26.2 | 26.7 | 27.4 | 28.4 |
| 7600.00 | 23.9 | -32.2 | -17.8 | -16.5 | 1.5 | 0.9 | 21.3 | 22.7 | 1.5 | 25.6 | 25.4 | 25.8 | 26.1 | 26.5 | 27.2 | 28.2 |
| 7700.00 | 23.8 | -32.2 | -19.8 | -18.4 | 1.6 | 0.9 | 21.7 | 22.7 | 1.6 | 24.4 | 24.3 | 24.7 | 25.1 | 25.7 | 26.4 | 27.5 |
| 7800.00 | 23.8 | -33.0 | -17.4 | -18.5 | 1.7 | 0.9 | 21.2 | 22.4 | 1.6 | 24.7 | 25.2 | 25.4 | 25.7 | 26.3 | 26.9 | 28.0 |
| 7900.00 | 23.6 | -33.1 | -18.2 | -22.0 | 1.7 | 0.9 | 20.9 | 22.1 | 1.7 | 24.5 | 24.7 | 25.1 | 25.5 | 26.1 | 26.8 | 27.8 |
| 8000.00 | 23.5 | -34.4 | -14.7 | -21.9 | 1.9 | 0.9 | 20.4 | 21.7 | 1.9 | 23.7 | 23.8 | 24.4 | 24.9 | 25.5 | 26.4 | 27.7 |
| 8100.00 | 23.2 | -34.5 | -14.5 | -26.9 | 2.0 | 1.0 | 20.5 | 21.6 | 1.9 | 24.0 | 23.6 | 24.2 | 24.6 | 25.3 | 26.1 | 27.4 |
| 8200.00 | 22.7 | -36.3 | -11.0 | -20.0 | 2.4 | 1.0 | 20.2 | 21.2 | 2.1 | 22.9 | | 23.3 | 23.8 | 24.5 | 25.6 | 27.2 |
| 8300.00 | 22.5 | -35.9 | -10.9 | -19.7 | 2.4 | 1.0 | 20.3 | 21.1 | 2.2 | 23.1 | 23.2 | 23.5 | 24.0 | 24.7 | 25.7 | 27.2 |
| 8400.00 | 21.5 | -39.0 | -8.1 | -13.7 | 3.3 | 1.1 | 20.0 | 20.7 | 2.4 | 23.2 | 22.7 | 23.5 | 24.0 | 24.7 | 25.8 | 27.3 |
| 8500.00 | 21.3 | -38.6 | -7.7 | -12.8 | 3.1 | 1.1 | 19.5 | 20.2 | 2.5 | 21.5 | 21.7 | 22.1 | 22.7 | 23.6 | 24.9 | 26.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 39.1 | 39.0 | 38.9 | 38.8 | 38.8 | 38.7 | 38.8 |
| 6000.0 | 33.6 | 33.6 | 33.5 | 33.4 | 33.2 | 33.2 | 33.2 |
| 7000.0 | 42.0 | 41.9 | 41.7 | 41.5 | 41.4 | 41.3 | 41.4 |
| 8000.0 | 50.8 | 50.7 | 50.4 | 50.3 | 50.1 | 50.1 | 50.2 |
| 8500.0 | 60.2 | 60.0 | 59.8 | 59.6 | 59.5 | 59.6 | 60.0 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.8 | -3.9 | -8.6 | 1.1 | 0.8 | 2.8 |
| 300.00 | -2.3 | -2.3 | -6.6 | -11.4 | 1.0 | 0.6 | 1.5 |
| 400.00 | -1.7 | -1.7 | -9.2 | -13.5 | 1.0 | 0.5 | 1.1 |
| 500.00 | -1.4 | -1.4 | -11.8 | -15.3 | 1.0 | 0.5 | 1.1 |
| 600.00 | -1.2 | -1.3 | -14.7 | -17.0 | 1.0 | 0.4 | 0.9 |
| 700.00 | -1.2 | -1.2 | -18.0 | -18.2 | 1.0 | 0.4 | 0.8 |
| 800.00 | -1.1 | -1.2 | -22.0 | -18.5 | 1.0 | 0.4 | 0.7 |
| 900.00 | -1.1 | -1.1 | -27.4 | -18.3 | 1.0 | 0.4 | 0.6 |
| 1000.00 | -1.1 | -1.1 | -33.4 | -17.9 | 1.0 | 0.4 | 0.6 |
| 1100.00 | -1.1 | -1.1 | -28.2 | -17.5 | 1.0 | 0.4 | 0.7 |
| 1200.00 | -1.1 | -1.1 | -23.8 | -17.1 | 1.0 | 0.4 | 0.8 |
| 1300.00 | -1.1 | -1.2 | -21.0 | -16.6 | 1.0 | 0.4 | 0.6 |
| 1400.00 | -1.1 | -1.2 | -19.0 | -16.0 | 1.0 | 0.4 | 0.9 |
| 1500.00 | -1.2 | -1.2 | -17.5 | -15.6 | 1.0 | 0.4 | 0.9 |
| 1600.00 | -1.2 | -1.3 | -16.4 | -15.4 | 1.0 | 0.4 | 0.9 |
| 1700.00 | -1.2 | -1.3 | -15.6 | -15.5 | 1.0 | 0.4 | 0.8 |
| 1800.00 | -1.3 | -1.4 | -14.9 | -15.4 | 1.0 | 0.5 | 1.1 |
| 1900.00 | -1.3 | -1.4 | -14.4 | -15.2 | 1.0 | 0.5 | 1.0 |
| 2000.00 | -1.3 | -1.5 | -14.0 | -15.2 | 1.0 | 0.5 | 1.2 |
| 2100.00 | -1.4 | -1.5 | -13.8 | -15.4 | 1.0 | 0.5 | 1.0 |
| 2200.00 | -1.4 | -1.5 | -13.6 | -15.7 | 1.0 | 0.5 | 0.9 |
| 2300.00 | -1.4 | -1.5 | -13.5 | -15.9 | 1.0 | 0.5 | 1.0 |
| 2400.00 | -1.4 | -1.6 | -13.5 | -16.4 | 1.0 | 0.5 | 1.3 |
| 2500.00 | -1.4 | -1.6 | -13.4 | -16.9 | 1.0 | 0.5 | 1.4 |
| 2600.00 | -1.5 | -1.7 | -13.5 | -17.6 | 1.0 | 0.6 | 1.5 |
| 2700.00 | -1.5 | -1.8 | -13.7 | -18.4 | 1.0 | 0.6 | 1.2 |
| 2800.00 | -1.5 | -1.8 | -13.9 | -19.5 | 1.1 | 0.6 | 0.9 |
| 2900.00 | -1.5 | -1.9 | -14.2 | -20.5 | 1.1 | 0.6 | 1.6 |
| 3000.00 | -1.5 | -1.9 | -14.3 | -21.7 | 1.1 | 0.6 | 1.8 |
| 3100.00 | -1.5 | -1.9 | -14.3 | -23.5 | 1.1 | 0.6 | 1.6 |
| 3200.00 | -1.5 | -1.9 | -14.3 | -25.7 | 1.1 | 0.6 | 1.2 |
| 3300.00 | -1.5 | -1.8 | -14.3 | -27.9 | 1.1 | 0.6 | 1.1 |
| 3400.00 | -1.6 | -1.8 | -14.4 | -30.2 | 1.1 | 0.6 | 1.6 |
| 3500.00 | -1.6 | -1.8 | -14.4 | -30.7 | 1.1 | 0.6 | 1.4 |
| 3600.00 | -1.6 | -1.8 | -14.3 | -27.6 | 1.1 | 0.6 | 1.6 |
| 3700.00 | -1.6 | -1.8 | -14.2 | -25.0 | 1.1 | 0.6 | 1.4 |
| 3800.00 | -1.6 | -1.8 | -14.0 | -22.9 | 1.1 | 0.6 | 1.4 |
| 3900.00 | -1.6 | -1.8 | -13.8 | -21.1 | 1.1 | 0.6 | 1.0 |
| 4000.00 | -1.6 | -1.9 | -13.6 | -19.4 | 1.1 | 0.6 | 1.8 |
| 4100.00 | -1.6 | -1.9 | -13.3 | -18.0 | 1.1 | 0.6 | 1.4 |
| 4200.00 | -1.7 | -1.9 | -13.0 | -16.9 | 1.1 | 0.6 | 1.5 |
| 4300.00 | -1.7 | -1.9 | -12.7 | -16.0 | 1.1 | 0.6 | 1.3 |
| 4400.00 | -1.7 | -2.0 | -12.4 | -15.1 | 1.1 | 0.6 | 1.5 |
| 4500.00 | -1.7 | -2.0 | -12.1 | -14.5 | 1.1 | 0.6 | 1.3 |
| 4600.00 | -1.8 | -2.0 | -11.9 | -13.9 | 1.1 | 0.6 | 1.1 |
| 4700.00 | -1.8 | -2.0 | -11.7 | -13.4 | 1.1 | 0.6 | 1.6 |
| 4800.00 | -1.8 | -2.1 | -11.5 | -13.0 | 1.1 | 0.6 | 1.4 |
| 4900.00 | -1.8 | -2.1 | -11.4 | -12.7 | 1.1 | 0.6 | 1.6 |
| 5000.00 | -1.8 | -2.1 | -11.2 | -12.3 | 1.1 | 0.6 | 1.6 |
| 5100.00 | -1.8 | -2.2 | -11.1 | -12.1 | 1.1 | 0.6 | 1.1 |
| 5200.00 | -1.8 | -2.2 | -11.0 | -11.9 | 1.1 | 0.6 | 1.7 |
| 5300.00 | -1.8 | -2.2 | -11.0 | -11.9 | 1.1 | 0.6 | 2.0 |
| 5400.00 | -1.8 | -2.3 | -11.0 | -11.7 | 1.1 | 0.6 | 2.1 |
| 5500.00 | -1.8 | -2.2 | -10.9 | -11.4 | 1.1 | 0.6 | 1.3 |
| 5600.00 | -1.8 | -2.2 | -11.0 | -11.4 | 1.1 | 0.6 | 1.7 |
| 5700.00 | -1.8 | -2.3 | -11.1 | -11.4 | 1.1 | 0.6 | 1.6 |
| 5800.00 | -1.7 | -2.2 | -11.2 | -11.3 | 1.1 | 0.5 | 1.6 |
| 5900.00 | -1.7 | -2.2 | -11.4 | -11.5 | 1.1 | 0.6 | 1.6 |
| 6000.00 | -1.7 | -2.2 | -11.4 | -11.3 | 1.1 | 0.5 | 1.9 |
| 6100.00 | -1.7 | -2.1 | -11.7 | -11.5 | 1.1 | 0.5 | 1.2 |
| 6200.00 | -1.7 | -2.2 | -12.0 | -11.7 | 1.1 | 0.5 | 1.3 |
| 6300.00 | -1.6 | -2.1 | -12.1 | -11.6 | 1.1 | 0.5 | 1.1 |
| 6400.00 | -1.6 | -2.1 | -12.4 | -11.8 | 1.1 | 0.5 | 1.4 |
| 6500.00 | -1.7 | -2.2 | -12.6 | -11.8 | 1.1 | 0.5 | 1.5 |
| 6600.00 | -1.6 | -2.1 | -12.6 | -11.8 | 1.1 | 0.5 | 1.7 |
| 6700.00 | -1.6 | -2.1 | -13.0 | -12.0 | 1.1 | 0.5 | 1.2 |
| 6800.00 | -1.6 | -2.1 | -13.1 | -12.1 | 1.1 | 0.5 | 1.0 |
| 6900.00 | -1.6 | -2.1 | -13.1 | -12.0 | 1.1 | 0.5 | 1.1 |
| 7000.00 | -1.6 | -2.2 | -13.2 | -12.0 | 1.1 | 0.6 | 1.6 |
| 7100.00 | -1.7 | -2.2 | -13.0 | -11.9 | 1.1 | 0.6 | 2.0 |
| 7200.00 | -1.7 | -2.2 | -12.9 | -11.9 | 1.1 | 0.6 | 1.8 |
| 7300.00 | -1.7 | -2.3 | -12.8 | -11.7 | 1.1 | 0.6 | 1.2 |
| 7400.00 | -1.8 | -2.3 | -12.4 | -11.4 | 1.1 | 0.6 | 1.7 |
| 7500.00 | -1.9 | -2.4 | -12.1 | -11.2 | 1.1 | 0.6 | 1.3 |
| 7600.00 | -2.0 | -2.5 | -11.8 | -10.9 | 1.1 | 0.6 | 1.2 |
| 7700.00 | -2.0 | -2.6 | -11.1 | -10.5 | 1.1 | 0.6 | 2.3 |
| 7800.00 | -2.1 | -2.6 | -10.8 | -10.2 | 1.1 | 0.6 | 1.8 |
| 7900.00 | -2.3 | -2.8 | -10.3 | -9.6 | 1.1 | 0.6 | 1.9 |
| 8000.00 | -2.3 | -2.8 | -9.6 | -9.1 | 1.1 | 0.6 | 1.9 |

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 42.3 | 42.9 | 43.2 | 43.0 | 38.5 | 30.7 | 22.4 |
| 1000.0 | 42.6 | 43.8 | 44.9 | 39.7 | 30.3 | 21.0 | 16.3 |
| 2000.0 | 43.2 | 44.4 | 45.3 | 44.5 | 38.4 | 28.8 | 19.5 |
| 4000.0 | 40.1 | 40.8 | 42.0 | 42.9 | 43.0 | 40.2 | 31.7 |
| 6000.0 | 40.7 | 41.6 | 43.0 | 44.0 | 44.2 | 39.6 | 29.1 |
| 8000.0 | 41.6 | 42.5 | 43.5 | 44.5 | 44.6 | 40.4 | 30.1 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 69.3 | 69.2 | 69.0 | 68.8 | 68.4 | 66.4 | 56.5 |
| 1000.0 | 70.3 | 70.5 | 70.7 | 71.0 | 70.3 | 60.7 | 52.4 |
| 2000.0 | 69.7 | 69.6 | 69.7 | 69.8 | 69.8 | 68.0 | 56.9 |
| 4000.0 | 71.2 | 71.1 | 71.1 | 71.2 | 71.3 | 71.3 | 71.1 |
| 6000.0 | 74.2 | 74.2 | 74.1 | 74.0 | 73.7 | 73.1 | 70.6 |
| 8000.0 | 84.3 | 84.3 | 84.3 | 84.3 | 84.2 | 83.9 | 82.4 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 16.1 | 13.2 |
| 1000.0 | 13.5 | 11.5 |
| 2000.0 | 15.2 | 12.8 |
| 4000.0 | 17.8 | 15.2 |
| 6000.0 | 18.4 | 15.5 |
| 8000.0 | 18.3 | 14.7 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.6 | -2.1 | -20.9 | -18.4 | 1.1 | 0.6 | 1.5 |
| 5600.00 | -1.5 | -2.1 | -21.6 | -18.7 | 1.1 | 0.6 | 1.4 |
| 5700.00 | -1.5 | -2.1 | -21.4 | -18.6 | 1.1 | 0.6 | 1.6 |
| 5800.00 | -1.5 | -2.1 | -20.8 | -17.9 | 1.1 | 0.6 | 1.5 |
| 5900.00 | -1.5 | -2.1 | -19.6 | -17.3 | 1.1 | 0.6 | 1.4 |
| 6000.00 | -1.5 | -2.1 | -18.7 | -16.5 | 1.1 | 0.6 | 1.2 |
| 6100.00 | -1.5 | -2.1 | -17.4 | -15.5 | 1.1 | 0.6 | 1.4 |
| 6200.00 | -1.5 | -2.1 | -16.4 | -14.7 | 1.1 | 0.6 | 1.6 |
| 6300.00 | -1.6 | -2.2 | -15.3 | -13.8 | 1.1 | 0.6 | 1.6 |
| 6400.00 | -1.6 | -2.2 | -14.4 | -13.2 | 1.1 | 0.6 | 1.3 |
| 6500.00 | -1.7 | -2.3 | -13.5 | -12.4 | 1.1 | 0.6 | 1.2 |
| 6600.00 | -1.7 | -2.3 | -12.7 | -11.8 | 1.1 | 0.6 | 1.4 |
| 6700.00 | -1.8 | -2.4 | -11.8 | -11.1 | 1.1 | 0.6 | 1.9 |
| 6800.00 | -1.9 | -2.5 | -11.1 | -10.5 | 1.1 | 0.6 | 1.4 |
| 6900.00 | -2.0 | -2.6 | -10.4 | -9.9 | 1.1 | 0.6 | 1.6 |
| 7000.00 | -2.1 | -2.7 | -9.8 | -9.3 | 1.1 | 0.6 | 1.8 |
| 7100.00 | -2.2 | -2.8 | -9.1 | -8.8 | 1.1 | 0.6 | 1.9 |
| 7200.00 | -2.3 | -2.9 | -8.6 | -8.3 | 1.1 | 0.6 | 1.5 |
| 7300.00 | -2.5 | -3.0 | -8.0 | -7.8 | 1.1 | 0.6 | 1.6 |
| 7400.00 | -2.6 | -3.2 | -7.5 | -7.4 | 1.1 | 0.6 | 1.5 |
| 7500.00 | -2.8 | -3.3 | -7.0 | -6.9 | 1.1 | 0.6 | 1.4 |
| 7600.00 | -2.9 | -3.5 | -6.6 | -6.6 | 1.1 | 0.6 | 1.8 |
| 7700.00 | -3.1 | -3.7 | -6.1 | -6.1 | 1.1 | 0.6 | 1.7 |
| 7800.00 | -3.3 | -3.8 | -5.8 | -5.9 | 1.1 | 0.6 | 1.8 |
| 7900.00 | -3.5 | -4.0 | -5.4 | -5.5 | 1.1 | 0.6 | 2.0 |
| 8000.00 | -3.7 | -4.2 | -5.2 | -5.3 | 1.1 | 0.6 | 2.4 |
| 8100.00 | -3.9 | -4.4 | -4.8 | -4.9 | 1.1 | 0.5 | 2.3 |
| 8200.00 | -4.1 | -4.6 | -4.6 | -4.8 | 1.1 | 0.5 | 1.8 |
| 8300.00 | -4.3 | -4.8 | -4.2 | -4.4 | 1.1 | 0.5 | 2.0 |
| 8400.00 | -4.5 | -5.0 | -4.1 | -4.3 | 1.1 | 0.5 | 1.0 |
| 8500.00 | -4.6 | -5.1 | -3.8 | -4.0 | 1.1 | 0.5 | 1.8 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 17.7 | 14.6 |
| 6000.0 | 18.5 | 15.5 |
| 7000.0 | 20.3 | 16.7 |
| 8000.0 | 20.7 | 15.1 |
| 8500.0 | 19.3 | 13.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 71.1 | 71.1 | 70.9 | 70.6 | 70.2 | 69.5 | 66.7 | 40.4 | 40.8 | 41.4 | 40.8 | 40.9 | 40.8 | 36.8 |
| 6000.0 | 77.3 | 77.5 | 77.4 | 77.4 | 77.1 | 76.8 | 76.1 | 39.3 | 40.4 | 40.6 | 42.2 | 42.0 | 41.1 | 32.8 |
| 7000.0 | 90.5 | 90.4 | 90.2 | 90.1 | 89.8 | 89.5 | 88.9 | 38.9 | 39.1 | 39.6 | 41.7 | 41.8 | 40.6 | 33.4 |
| 8000.0 | 84.4 | 84.4 | 84.4 | 84.2 | 84.3 | 84.1 | 84.0 | 41.6 | 42.3 | 42.4 | 39.8 | 39.8 | 39.6 | 38.3 |
| 8500.0 | 91.0 | 90.9 | 90.8 | 90.6 | 90.4 | 91.9 | 88.8 | 41.8 | 42.8 | 44.1 | 45.5 | 46.4 | 34.0 | 20.7 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 118 mA, $I_{EN}$ = 2.76 mA @ Temperature = - 45°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 16.0 | -34.1 | -1.8 | -3.9 | 1.4 | 0.9 | 21.7 | 23.6 | 3.7 | 31.6 | 35.2 | 36.6 | 37.2 | 36.8 | 36.8 | 36.3 |
| 300.00 | 21.0 | -29.0 | -5.9 | -8.0 | 1.2 | 0.8 | 21.8 | 23.6 | 1.8 | 32.6 | 35.3 | 37.1 | 38.7 | 37.5 | 37.1 | 36.8 |
| 400.00 | 22.4 | -27.7 | -12.7 | -13.0 | 1.1 | 0.7 | 22.2 | 24.0 | 1.4 | 37.7 | 35.3 | 38.0 | 38.0 | 38.6 | 39.4 | 38.5 |
| 500.00 | 22.7 | -27.4 | -16.9 | -13.7 | 1.1 | 0.6 | 22.6 | 24.1 | 1.2 | 35.6 | 34.7 | 37.4 | 38.5 | 39.7 | 39.8 | 39.0 |
| 600.00 | 22.7 | -27.3 | -15.5 | -12.6 | 1.1 | 0.6 | 22.9 | 24.2 | 1.1 | 32.1 | 37.7 | 38.5 | 39.7 | 39.3 | 39.7 | 39.4 |
| 700.00 | 22.7 | -27.4 | -13.8 | -11.9 | 1.1 | 0.6 | 23.0 | 24.4 | 1.1 | 36.3 | 35.8 | 36.7 | 38.5 | 38.6 | 39.2 | 38.6 |
| 800.00 | 22.7 | -27.5 | -13.1 | -11.6 | 1.1 | 0.6 | 23.1 | 24.5 | 1.0 | 33.6 | 35.9 | 37.5 | 39.5 | 39.5 | 39.1 | 39.3 |
| 900.00 | 22.7 | -27.5 | -12.7 | -11.5 | 1.1 | 0.6 | 23.2 | 24.6 | 1.0 | 33.8 | 37.1 | 37.8 | 38.8 | 38.4 | 38.8 | 38.9 |
| 1000.00 | 22.7 | -27.5 | -12.5 | -11.6 | 1.1 | 0.6 | 23.4 | 24.7 | 1.1 | 36.6 | 36.3 | 37.5 | 38.3 | 38.2 | 38.4 | 38.7 |
| 1100.00 | 22.7 | -27.6 | -12.6 | -11.8 | 1.1 | 0.6 | 23.3 | 24.6 | 1.1 | 31.5 | 34.3 | 36.8 | 38.0 | 38.3 | 38.5 | 38.6 |
| 1200.00 | 22.7 | -27.6 | -12.8 | -12.2 | 1.1 | 0.6 | 23.4 | 24.8 | 1.1 | 34.3 | 34.3 | 36.3 | 37.3 | 37.7 | 38.0 | 38.0 |
| 1300.00 | 22.7 | -27.6 | -13.0 | -12.6 | 1.1 | 0.6 | 23.4 | 24.8 | 1.1 | 34.5 | 36.4 | 36.5 | 36.7 | 37.6 | 37.5 | 37.6 |
| 1400.00 | 22.8 | -27.6 | -13.5 | -13.2 | 1.1 | 0.6 | 23.4 | 24.7 | 1.0 | 34.0 | 35.5 | 35.6 | 36.5 | 36.9 | 37.2 | 37.6 |
| 1500.00 | 22.8 | -27.6 | -14.0 | -13.9 | 1.1 | 0.6 | 23.2 | 24.8 | 1.0 | 34.1 | 36.4 | 36.1 | 36.2 | 36.4 | 36.8 | 36.9 |
| 1600.00 | 22.8 | -27.7 | -14.5 | -14.8 | 1.1 | 0.7 | 23.3 | 24.8 | 1.1 | 34.9 | 35.5 | 34.9 | 36.3 | 36.0 | 36.5 | 36.7 |
| 1700.00 | 22.8 | -27.6 | -14.8 | -15.4 | 1.1 | 0.7 | 23.4 | 24.9 | 1.1 | 34.7 | 34.1 | 36.5 | 35.9 | 36.4 | 36.6 | 36.9 |
| 1800.00 | 22.9 | -27.7 | -15.5 | -16.6 | 1.1 | 0.7 | 23.3 | 24.9 | 1.1 | 34.3 | 35.4 | 35.0 | 35.9 | 35.7 | 36.2 | 36.4 |
| 1900.00 | 22.9 | -27.7 | -16.2 | -18.2 | 1.1 | 0.7 | 23.2 | 24.9 | 1.1 | 32.6 | 33.3 | 34.2 | 35.5 | 35.3 | 35.7 | 36.0 |
| 2000.00 | 23.0 | -27.7 | -16.7 | -19.9 | 1.1 | 0.7 | 23.0 | 24.8 | 1.1 | 35.7 | 35.8 | 33.7 | 35.0 | 35.8 | 36.0 | 36.2 |
| 2100.00 | 23.0 | -27.7 | -16.9 | -21.7 | 1.1 | 0.7 | 23.3 | 25.0 | 1.2 | 33.0 | 34.3 | 34.1 | 34.7 | 35.4 | 35.8 | 36.1 |
| 2200.00 | 23.0 | -27.8 | -17.0 | -23.9 | 1.1 | 0.7 | 23.3 | 25.0 | 1.2 | 31.8 | 32.3 | 34.7 | 34.7 | 34.9 | 35.4 | 36.0 |
| 2300.00 | 23.0 | -27.8 | -17.0 | -26.6 | 1.2 | 0.7 | 23.3 | 25.1 | 1.2 | 35.1 | 32.9 | 33.9 | 34.1 | 35.2 | 35.4 | 35.8 |
| 2400.00 | 23.0 | -27.9 | -16.7 | -29.0 | 1.2 | 0.7 | 23.0 | 25.2 | 1.2 | 33.1 | 33.2 | 33.2 | 33.1 | 33.8 | 34.2 | 34.4 |
| 2500.00 | 23.0 | -27.9 | -16.6 | -30.6 | 1.2 | 0.7 | 22.9 | 25.3 | 1.2 | 31.8 | 32.3 | 34.6 | 33.6 | 33.7 | 34.0 | 34.1 |
| 2600.00 | 23.0 | -28.0 | -16.4 | -29.6 | 1.2 | 0.7 | 22.8 | 25.3 | 1.2 | 31.6 | 32.8 | 33.5 | 33.2 | 33.8 | 34.0 | 34.2 |
| 2700.00 | 23.0 | -28.2 | -16.0 | -27.1 | 1.2 | 0.7 | 22.4 | 24.9 | 1.3 | 31.0 | 32.1 | 33.4 | 33.2 | 33.6 | 33.9 | 34.2 |
| 2800.00 | 23.0 | -28.2 | -15.5 | -24.7 | 1.2 | 0.7 | 22.3 | 24.6 | 1.3 | 32.2 | 31.3 | 32.1 | 32.6 | 33.2 | 33.5 | 33.6 |
| 2900.00 | 23.0 | -28.3 | -14.9 | -22.7 | 1.2 | 0.7 | 22.0 | 24.4 | 1.3 | 30.9 | | 32.9 | 33.1 | 33.7 | 33.8 | 33.9 |
| 3000.00 | 23.0 | -28.4 | -14.3 | -21.2 | 1.2 | 0.8 | 22.2 | 24.6 | 1.3 | 30.8 | 31.2 | 31.8 | 32.1 | 32.3 | 32.6 | 32.6 |
| 3100.00 | 23.0 | -28.3 | -13.7 | -20.2 | 1.2 | 0.7 | 22.2 | 24.8 | 1.3 | 30.0 | 32.6 | 32.4 | 32.2 | 32.2 | 32.3 | 32.5 |
| 3200.00 | 22.9 | -28.4 | -13.3 | -19.7 | 1.2 | 0.7 | 22.2 | 24.9 | 1.3 | 33.0 | 31.2 | 33.0 | 32.0 | 32.7 | 32.8 | 33.0 |
| 3300.00 | 22.9 | -28.4 | -13.0 | -19.3 | 1.2 | 0.7 | 22.2 | 24.8 | 1.3 | 31.9 | 31.7 | 31.7 | 32.1 | 32.1 | 32.4 | 32.5 |
| 3400.00 | 22.9 | -28.4 | -12.8 | -18.7 | 1.2 | 0.7 | 22.0 | 24.6 | 1.3 | 30.4 | 30.9 | 31.5 | 31.6 | 32.2 | 32.6 | 32.7 |
| 3500.00 | 22.9 | -28.4 | -12.7 | -18.6 | 1.2 | 0.7 | 22.1 | 24.6 | 1.3 | 31.4 | 31.5 | 31.8 | 31.7 | 31.6 | 32.0 | 32.3 |
| 3600.00 | 23.0 | -28.4 | -12.7 | -18.9 | 1.2 | 0.7 | 22.0 | 24.5 | 1.2 | 31.0 | 30.5 | 31.4 | 31.6 | 31.9 | 32.1 | 32.3 |
| 3700.00 | 23.0 | -28.5 | -12.6 | -19.1 | 1.2 | 0.7 | 22.0 | 24.8 | 1.3 | 32.6 | 31.9 | 31.6 | 32.1 | 32.4 | 32.7 | 33.2 |
| 3800.00 | 23.0 | -28.5 | -12.7 | -19.4 | 1.2 | 0.7 | 22.2 | 25.0 | 1.2 | 30.2 | 30.6 | 31.2 | 31.6 | 32.0 | 32.4 | 32.7 |
| 3900.00 | 23.0 | -28.5 | -12.7 | -19.7 | 1.2 | 0.8 | 22.6 | 25.1 | 1.2 | 30.9 | 31.5 | 30.9 | 31.3 | 32.0 | 32.2 | 32.5 |
| 4000.00 | 23.1 | -28.5 | -12.8 | -20.2 | 1.2 | 0.8 | 22.7 | 25.2 | 1.2 | 31.9 | 30.4 | 31.2 | 31.9 | 32.0 | 32.3 | 32.7 |
| 4100.00 | 23.1 | -28.5 | -13.1 | -21.1 | 1.2 | 0.8 | 23.0 | 25.3 | 1.2 | 28.8 | 30.8 | 30.8 | 30.8 | 31.2 | 32.0 | 32.3 |
| 4200.00 | 23.1 | -28.6 | -13.2 | -22.0 | 1.2 | 0.8 | 23.0 | 25.3 | 1.2 | 30.5 | 31.2 | 30.8 | 31.4 | 31.6 | 32.0 | 32.4 |
| 4300.00 | 23.1 | -28.6 | -13.6 | -22.6 | 1.2 | 0.8 | 23.0 | 25.4 | 1.2 | 29.5 | 30.5 | 31.0 | 31.1 | 31.6 | 32.1 | 32.5 |
| 4400.00 | 23.2 | -28.6 | -14.1 | -24.4 | 1.2 | 0.8 | 23.0 | 25.5 | 1.2 | 30.6 | 29.9 | 30.4 | 31.0 | 31.5 | 32.0 | 32.5 |
| 4500.00 | 23.2 | -28.7 | -14.3 | -26.0 | 1.2 | 0.8 | 23.1 | 25.6 | 1.2 | 29.9 | 30.4 | 30.8 | 31.1 | 31.3 | 31.8 | 32.2 |
| 4600.00 | 23.2 | -28.8 | -15.0 | -27.3 | 1.2 | 0.8 | 22.9 | 25.6 | 1.2 | 29.5 | 30.1 | 30.8 | 31.2 | 31.3 | 31.6 | 32.0 |
| 4700.00 | 23.3 | -28.7 | -15.6 | -31.2 | 1.2 | 0.8 | 22.9 | 25.4 | 1.2 | 30.1 | 30.8 | 30.4 | 30.9 | 31.1 | 31.6 | 32.0 |
| 4800.00 | 23.3 | -28.8 | -16.0 | -33.5 | 1.2 | 0.8 | 22.9 | 25.3 | 1.2 | 29.6 | 29.6 | 30.1 | 30.8 | 31.2 | 31.6 | 32.2 |
| 4900.00 | 23.3 | -28.9 | -17.1 | -34.4 | 1.2 | 0.8 | 22.7 | 25.2 | 1.2 | 28.7 | 29.1 | 29.6 | 30.2 | 30.5 | 30.9 | 31.4 |
| 5000.00 | 23.4 | -28.9 | -17.5 | -38.9 | 1.2 | 0.8 | 22.6 | 25.1 | 1.3 | 28.6 | 29.2 | 29.4 | 29.6 | 30.0 | 30.3 | 30.8 |
| 5100.00 | 23.5 | -29.1 | -18.7 | -39.3 | 1.2 | 0.8 | 22.8 | 25.0 | 1.2 | 29.5 | 29.1 | 29.1 | 29.4 | 29.7 | 30.1 | 30.7 |
| 5200.00 | 23.4 | -29.0 | -20.1 | -33.7 | 1.2 | 0.8 | 22.8 | 24.9 | 1.2 | 29.0 | 28.4 | 28.8 | 29.3 | 29.8 | 30.3 | 30.9 |
| 5300.00 | 23.6 | -29.0 | -20.5 | -35.4 | 1.2 | 0.8 | 22.9 | 25.2 | 1.2 | 29.0 | 28.9 | 29.2 | 29.6 | 30.0 | 30.6 | 31.2 |
| 5400.00 | 23.5 | -29.2 | -23.2 | -35.6 | 1.3 | 0.8 | 23.0 | 25.3 | 1.2 | 28.3 | 28.6 | 28.7 | 29.2 | 29.7 | 30.3 | 30.8 |
| 5500.00 | 23.6 | -29.1 | -24.1 | -31.3 | 1.2 | 0.8 | 22.9 | 25.2 | 1.2 | 28.2 | 28.2 | 28.6 | 29.0 | 29.5 | 30.0 | 30.6 |
| 5600.00 | 23.7 | -29.2 | -24.0 | -36.0 | 1.2 | 0.8 | 22.4 | 25.0 | 1.2 | 28.4 | 29.0 | 28.7 | 29.2 | 29.4 | 29.9 | 30.4 |
| 5700.00 | 23.5 | -29.5 | -27.5 | -35.8 | 1.3 | 0.8 | 22.2 | 24.8 | 1.2 | 28.0 | 28.4 | 28.6 | 29.1 | 29.4 | 29.9 | 30.4 |
| 5800.00 | 23.7 | -29.2 | -25.3 | -38.3 | 1.2 | 0.8 | 22.0 | 24.7 | 1.3 | 27.5 | 28.0 | 28.3 | 28.6 | 29.0 | 29.5 | 29.9 |
| 5900.00 | 23.7 | -29.5 | -22.1 | -38.5 | 1.3 | 0.8 | 21.9 | 24.6 | 1.3 | 27.3 | 27.7 | 27.9 | 28.3 | 28.7 | 29.1 | 29.6 |
| 6000.00 | 23.6 | -29.5 | -23.1 | -37.9 | 1.3 | 0.8 | 21.1 | 24.0 | 1.3 | 27.0 | 27.2 | 27.4 | 27.6 | 27.8 | 28.1 | 28.4 |
| 6100.00 | 23.8 | -29.4 | -19.3 | -31.3 | 1.2 | 0.8 | 21.0 | 23.7 | 1.3 | 26.1 | 27.0 | 26.9 | 27.0 | 27.4 | 27.8 | 28.2 |
| 6200.00 | 23.7 | -29.7 | -17.0 | -24.9 | 1.3 | 0.8 | 20.7 | 22.9 | 1.3 | 26.3 | 26.0 | 26.5 | 26.6 | 26.9 | 27.3 | 27.8 |
| 6300.00 | 23.7 | -29.6 | -16.7 | -25.2 | 1.3 | 0.8 | 20.5 | 22.6 | 1.3 | 25.9 | 25.9 | 26.4 | 26.5 | 26.9 | 27.4 | 28.0 |
| 6400.00 | 23.8 | -29.9 | -14.1 | -21.0 | 1.3 | 0.8 | 20.4 | 22.4 | 1.4 | 25.4 | 25.7 | 25.5 | 25.8 | 26.3 | 26.8 | 27.5 |
| 6500.00 | 23.6 | -30.2 | -13.1 | -18.7 | 1.3 | 0.8 | 20.5 | 22.4 | 1.4 | 25.9 | 25.5 | 25.8 | 26.0 | 26.4 | 26.9 | 27.6 |
| 6600.00 | 23.7 | -30.1 | -12.0 | -17.8 | 1.3 | 0.8 | 20.7 | 22.6 | 1.4 | 25.6 | 25.8 | 26.3 | 26.4 | 26.8 | 27.3 | 27.9 |
| 6700.00 | 23.7 | -30.5 | -10.2 | -15.2 | 1.3 | 0.8 | 20.5 | 22.3 | 1.5 | 25.3 | 25.4 | 25.7 | 25.9 | 26.3 | 26.8 | 27.5 |
| 6800.00 | 23.4 | -31.0 | -9.5 | -13.9 | 1.3 | 0.9 | 20.5 | 22.2 | 1.5 | 25.5 | 25.5 | 25.6 | 26.0 | 26.3 | 26.9 | 27.5 |
| 6900.00 | 23.4 | -31.1 | -8.4 | -12.7 | 1.3 | 0.9 | 20.5 | 22.1 | 1.5 | 24.8 | 24.9 | 25.0 | 25.4 | 25.8 | 26.4 | 27.2 |
| 7000.00 | 23.2 | -31.9 | -7.2 | -11.2 | 1.4 | 0.9 | 20.8 | 22.1 | 1.5 | 23.9 | 24.1 | 24.3 | 24.7 | 25.1 | 25.7 | 26.5 |
| 7100.00 | 22.8 | -32.4 | -6.9 | -10.4 | 1.5 | 0.9 | 20.9 | 21.9 | 1.5 | 24.5 | 24.3 | 24.6 | 24.9 | 25.4 | 25.9 | 26.6 |
| 7200.00 | 22.6 | -32.9 | -6.0 | -9.3 | 1.5 | 0.9 | 20.8 | 21.6 | 1.6 | 24.2 | 24.6 | 24.6 | 24.9 | 25.4 | 26.0 | 26.7 |
| 7300.00 | 22.1 | -34.1 | -5.3 | -8.2 | 1.6 | 0.9 | 20.7 | 21.2 | 1.6 | 23.8 | 23.9 | 24.0 | 24.4 | 24.8 | 25.5 | 26.2 |
| 7400.00 | 21.6 | -34.9 | -5.1 | -7.7 | 1.7 | 1.0 | 20.4 | 20.9 | 1.6 | 23.7 | 23.8 | 24.0 | 24.4 | 24.8 | 25.5 | 26.3 |
| 7500.00 | 21.0 | -36.2 | -4.4 | -6.8 | 1.9 | 1.0 | 19.9 | 20.2 | 1.6 | 22.7 | 22.8 | 23.0 | 23.5 | 24.0 | 24.7 | 25.2 |
| 7600.00 | 20.0 | -38.5 | -4.3 | -6.2 | 2.5 | 1.0 | 19.7 | 20.0 | 1.7 | 23.6 | 23.7 | 23.9 | 24.1 | 24.7 | 25.2 | 25.7 |
| 7700.00 | 19.3 | -39.3 | -4.3 | -6.0 | 2.9 | 1.0 | 19.3 | 19.6 | 1.7 | 23.1 | 23.1 | 23.3 | 23.7 | 24.2 | 24.8 | 25.2 |
| 7800.00 | 18.5 | -42.1 | -4.0 | -5.5 | 3.8 | 1.0 | 18.5 | 18.7 | 1.8 | 22.0 | 22.1 | 22.5 | 23.0 | 23.6 | 24.2 | 24.3 |
| 7900.00 | 17.3 | -45.2 | -4.4 | -5.1 | 6.0 | 0.9 | 17.5 | 17.8 | 1.8 | 21.4 | 21.8 | 22.1 | 22.6 | 23.2 | 23.7 | 23.7 |
| 8000.00 | 16.4 | -46.7 | -4.0 | -4.7 | 7.2 | 0.9 | 16.4 | 16.7 | 1.8 | 20.1 | 20.3 | 20.8 | 21.4 | 21.9 | 21.8 | 22.0 |

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 118 mA, $I_{EN}$ = 2.76 mA @ Temperature = - 45°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 48.0 | 47.9 | 47.8 | 47.7 | 47.6 | 47.3 | 47.0 |
| 1000.0 | 45.6 | 45.5 | 45.4 | 45.3 | 45.2 | 45.0 | 44.9 |
| 2000.0 | 42.0 | 41.8 | 41.8 | 41.7 | 41.6 | 41.7 | 41.8 |
| 4000.0 | 41.2 | 41.1 | 41.1 | 41.0 | 41.0 | 41.0 | 41.3 |
| 6000.0 | 31.9 | 31.8 | 31.6 | 31.6 | 31.5 | 31.5 | 31.6 |
| 8000.0 | 37.7 | 37.5 | 37.4 | 37.3 | 37.7 | 38.4 | 40.0 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 126 mA, $I_{EN}$ = 2.74 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 22.9 | -29.8 | -11.7 | -11.1 | 1.3 | 0.7 | 22.4 | 24.6 | 1.2 | 29.7 | 28.8 | 29.6 | 29.8 | 30.2 | 30.6 | 31.1 |
| 5600.00 | 23.1 | -29.8 | -11.4 | -11.2 | 1.3 | 0.7 | 22.1 | 24.5 | 1.1 | 27.6 | 28.9 | 28.7 | 28.9 | 29.2 | 29.6 | 30.0 |
| 5700.00 | 23.0 | -29.9 | -12.0 | -11.5 | 1.3 | 0.7 | 21.9 | 24.4 | 1.1 | 28.2 | 28.2 | 28.6 | 28.9 | 29.3 | 29.8 | 30.2 |
| 5800.00 | 23.2 | -29.9 | -11.6 | -11.6 | 1.3 | 0.7 | 21.8 | 24.4 | 1.1 | 28.2 | 28.1 | 28.4 | 28.7 | 29.1 | 29.6 | 30.0 |
| 5900.00 | 23.1 | -29.9 | -12.1 | -11.9 | 1.3 | 0.8 | 21.3 | 24.0 | 1.1 | 28.4 | 27.4 | 28.0 | 28.2 | 28.7 | 29.0 | 29.4 |
| 6000.00 | 23.3 | -30.0 | -11.8 | -11.9 | 1.3 | 0.8 | 20.4 | 23.3 | 1.1 | 25.8 | 26.5 | 26.6 | 26.8 | 27.1 | 27.5 | 27.7 |
| 6100.00 | 23.3 | -29.9 | -12.3 | -12.3 | 1.3 | 0.8 | 20.8 | 23.4 | 1.1 | 26.7 | 26.8 | 26.8 | 27.1 | 27.5 | 27.8 | 28.2 |
| 6200.00 | 23.4 | -30.0 | -11.9 | -12.1 | 1.3 | 0.8 | 20.7 | 23.1 | 1.1 | 25.7 | 26.3 | 26.0 | 26.4 | 26.7 | 27.1 | 27.6 |
| 6300.00 | 23.4 | -29.9 | -12.4 | -12.5 | 1.3 | 0.8 | 21.2 | 23.4 | 1.1 | 26.6 | 26.6 | 26.6 | 27.0 | 27.3 | 27.8 | 28.4 |
| 6400.00 | 23.5 | -30.1 | -12.0 | -12.2 | 1.3 | 0.8 | 21.3 | 23.4 | 1.1 | 26.5 | 26.9 | 26.6 | 26.9 | 27.2 | 27.8 | 28.4 |
| 6500.00 | 23.5 | -30.1 | -12.5 | -12.7 | 1.3 | 0.8 | 21.2 | 23.2 | 1.2 | 26.1 | 26.9 | 26.6 | 26.9 | 27.3 | 27.8 | 28.5 |
| 6600.00 | 23.6 | -30.4 | -12.3 | -12.6 | 1.3 | 0.8 | 21.4 | 23.3 | 1.2 | 26.4 | 26.7 | 26.8 | 27.0 | 27.5 | 28.0 | 28.7 |
| 6700.00 | 23.6 | -30.3 | -13.0 | -13.1 | 1.3 | 0.8 | 21.3 | 23.2 | 1.2 | 26.8 | 26.6 | 26.4 | 26.9 | 27.3 | 27.9 | 28.7 |
| 6800.00 | 23.7 | -30.5 | -12.9 | -12.9 | 1.3 | 0.8 | 21.4 | 23.2 | 1.2 | 27.1 | 26.4 | 26.9 | 27.1 | 27.6 | 28.2 | 28.9 |
| 6900.00 | 23.7 | -30.5 | -13.6 | -13.5 | 1.3 | 0.8 | 21.6 | 23.3 | 1.2 | 26.7 | 26.7 | 26.8 | 27.2 | 27.6 | 28.3 | 29.1 |
| 7000.00 | 23.8 | -30.7 | -13.5 | -13.3 | 1.3 | 0.8 | 21.6 | 23.3 | 1.2 | 26.1 | 26.1 | 26.5 | 26.7 | 27.3 | 27.8 | 28.7 |
| 7100.00 | 23.8 | -30.8 | -14.5 | -14.0 | 1.3 | 0.8 | 21.6 | 23.2 | 1.3 | 26.6 | 26.2 | 26.5 | 27.0 | 27.5 | 28.1 | 28.9 |
| 7200.00 | 23.9 | -31.1 | -14.6 | -13.9 | 1.4 | 0.8 | 21.8 | 23.3 | 1.3 | 25.9 | 26.5 | 26.6 | 26.8 | 27.3 | 27.9 | 28.8 |
| 7300.00 | 23.9 | -31.2 | -16.0 | -14.8 | 1.4 | 0.8 | 21.8 | 23.3 | 1.3 | 25.9 | 25.8 | 26.0 | 26.5 | 26.9 | 27.6 | 28.5 |
| 7400.00 | 24.0 | -31.6 | -15.9 | -14.8 | 1.4 | 0.8 | 22.0 | 23.4 | 1.4 | 25.6 | 25.8 | 26.0 | 26.3 | 26.9 | 27.6 | 28.5 |
| 7500.00 | 23.9 | -31.7 | -17.7 | -16.0 | 1.5 | 0.8 | 21.6 | 23.0 | 1.5 | 25.1 | 26.1 | 25.8 | 26.3 | 26.8 | 27.5 | 28.5 |
| 7600.00 | 24.0 | -32.2 | -17.1 | -15.9 | 1.5 | 0.8 | 21.7 | 22.9 | 1.5 | 25.4 | 25.4 | 25.7 | 26.1 | 26.7 | 27.3 | 28.2 |
| 7700.00 | 23.8 | -32.3 | -18.7 | -17.6 | 1.6 | 0.9 | 22.0 | 22.9 | 1.6 | 24.1 | 24.5 | 24.9 | 25.2 | 25.7 | 26.5 | 27.6 |
| 7800.00 | 23.9 | -33.1 | -16.4 | -17.7 | 1.7 | 0.9 | 21.5 | 22.6 | 1.6 | 25.1 | 24.7 | 25.4 | 25.7 | 26.3 | 27.0 | 28.0 |
| 7900.00 | 23.6 | -33.3 | -17.0 | -20.8 | 1.7 | 0.9 | 21.3 | 22.3 | 1.7 | 24.6 | 24.8 | 25.1 | 25.5 | 26.1 | 26.8 | 27.9 |
| 8000.00 | 23.5 | -34.4 | -13.8 | -20.7 | 1.9 | 1.0 | 20.8 | 22.0 | 1.8 | 23.9 | 24.1 | 24.4 | 24.8 | 25.5 | 26.4 | 27.7 |
| 8100.00 | 23.2 | -34.6 | -13.6 | -25.1 | 2.0 | 1.0 | 20.9 | 21.8 | 1.9 | 23.6 | 23.8 | 24.2 | 24.6 | 25.2 | 26.1 | 27.4 |
| 8200.00 | 22.7 | -36.6 | -10.4 | -19.5 | 2.5 | 1.0 | 20.6 | 21.4 | 2.1 | 22.8 | | 23.3 | 23.8 | 24.6 | 25.6 | 27.2 |
| 8300.00 | 22.4 | -36.3 | -10.2 | -19.4 | 2.4 | 1.0 | 20.7 | 21.3 | 2.2 | 23.0 | 23.2 | 23.5 | 24.0 | 24.6 | 25.7 | 27.2 |
| 8400.00 | 21.4 | -39.3 | -7.6 | -13.6 | 3.3 | 1.1 | 20.3 | 20.8 | 2.4 | 23.1 | 23.0 | 23.6 | 24.1 | 24.7 | 25.9 | 27.4 |
| 8500.00 | 21.1 | -39.0 | -7.2 | -12.7 | 3.2 | 1.1 | 19.8 | 20.3 | 2.5 | 21.6 | 21.6 | 22.1 | 22.8 | 23.7 | 24.9 | 26.9 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 39.5 | 39.4 | 39.4 | 39.3 | 39.2 | 39.1 | 39.3 |
| 6000.0 | 34.0 | 33.9 | 33.8 | 33.7 | 33.7 | 33.6 | 33.7 |
| 7000.0 | 42.3 | 42.1 | 42.0 | 41.8 | 41.7 | 41.6 | 41.7 |
| 8000.0 | 51.0 | 50.9 | 50.8 | 50.6 | 50.4 | 50.3 | 50.4 |
| 8500.0 | 60.4 | 60.3 | 60.1 | 59.9 | 59.8 | 59.8 | 60.2 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.8 | -3.9 | -8.6 | 1.1 | 0.8 | 2.6 |
| 300.00 | -2.3 | -2.3 | -6.6 | -11.4 | 1.0 | 0.6 | 1.3 |
| 400.00 | -1.7 | -1.7 | -9.2 | -13.5 | 1.0 | 0.5 | 1.1 |
| 500.00 | -1.4 | -1.4 | -11.8 | -15.3 | 1.0 | 0.5 | 1.2 |
| 600.00 | -1.2 | -1.3 | -14.7 | -16.9 | 1.0 | 0.4 | 0.8 |
| 700.00 | -1.2 | -1.2 | -18.0 | -18.1 | 1.0 | 0.4 | 1.0 |
| 800.00 | -1.1 | -1.2 | -22.0 | -18.5 | 1.0 | 0.4 | 0.9 |
| 900.00 | -1.1 | -1.2 | -27.4 | -18.3 | 1.0 | 0.4 | 0.8 |
| 1000.00 | -1.1 | -1.1 | -33.2 | -17.9 | 1.0 | 0.4 | 0.8 |
| 1100.00 | -1.1 | -1.1 | -28.0 | -17.5 | 1.0 | 0.4 | 0.7 |
| 1200.00 | -1.1 | -1.2 | -23.7 | -17.0 | 1.0 | 0.4 | 0.6 |
| 1300.00 | -1.1 | -1.2 | -21.0 | -16.6 | 1.0 | 0.4 | 0.7 |
| 1400.00 | -1.1 | -1.2 | -19.0 | -16.0 | 1.0 | 0.4 | 0.5 |
| 1500.00 | -1.2 | -1.2 | -17.5 | -15.6 | 1.0 | 0.4 | 0.7 |
| 1600.00 | -1.2 | -1.3 | -16.4 | -15.4 | 1.0 | 0.4 | 0.8 |
| 1700.00 | -1.2 | -1.3 | -15.6 | -15.5 | 1.0 | 0.4 | 0.7 |
| 1800.00 | -1.3 | -1.4 | -14.9 | -15.4 | 1.0 | 0.5 | 1.1 |
| 1900.00 | -1.3 | -1.4 | -14.4 | -15.2 | 1.0 | 0.5 | 1.1 |
| 2000.00 | -1.3 | -1.5 | -14.0 | -15.1 | 1.0 | 0.5 | 1.0 |
| 2100.00 | -1.4 | -1.5 | -13.8 | -15.4 | 1.0 | 0.5 | 0.8 |
| 2200.00 | -1.4 | -1.5 | -13.6 | -15.6 | 1.0 | 0.5 | 0.8 |
| 2300.00 | -1.4 | -1.5 | -13.5 | -15.9 | 1.0 | 0.5 | 1.2 |
| 2400.00 | -1.4 | -1.6 | -13.5 | -16.4 | 1.0 | 0.5 | 1.2 |
| 2500.00 | -1.4 | -1.6 | -13.4 | -16.9 | 1.0 | 0.5 | 1.3 |
| 2600.00 | -1.5 | -1.7 | -13.5 | -17.6 | 1.0 | 0.6 | 1.3 |
| 2700.00 | -1.5 | -1.8 | -13.7 | -18.4 | 1.0 | 0.6 | 1.5 |
| 2800.00 | -1.5 | -1.8 | -13.9 | -19.5 | 1.1 | 0.6 | 1.8 |
| 2900.00 | -1.5 | -1.9 | -14.1 | -20.5 | 1.1 | 0.6 | 1.3 |
| 3000.00 | -1.5 | -1.9 | -14.2 | -21.7 | 1.1 | 0.6 | 1.7 |
| 3100.00 | -1.5 | -1.9 | -14.3 | -23.4 | 1.1 | 0.6 | 1.5 |
| 3200.00 | -1.5 | -1.9 | -14.3 | -25.7 | 1.1 | 0.6 | 1.4 |
| 3300.00 | -1.5 | -1.8 | -14.3 | -27.8 | 1.1 | 0.6 | 1.2 |
| 3400.00 | -1.6 | -1.8 | -14.4 | -30.0 | 1.1 | 0.6 | 1.3 |
| 3500.00 | -1.6 | -1.8 | -14.4 | -30.5 | 1.1 | 0.6 | 1.4 |
| 3600.00 | -1.6 | -1.8 | -14.3 | -27.5 | 1.1 | 0.6 | 1.4 |
| 3700.00 | -1.6 | -1.8 | -14.1 | -24.9 | 1.1 | 0.6 | 0.9 |
| 3800.00 | -1.6 | -1.8 | -14.0 | -22.9 | 1.1 | 0.6 | 1.6 |
| 3900.00 | -1.6 | -1.8 | -13.8 | -21.1 | 1.1 | 0.6 | 1.3 |
| 4000.00 | -1.6 | -1.9 | -13.5 | -19.4 | 1.1 | 0.6 | 1.2 |
| 4100.00 | -1.7 | -1.9 | -13.2 | -18.0 | 1.1 | 0.6 | 1.4 |
| 4200.00 | -1.7 | -1.9 | -12.9 | -16.9 | 1.1 | 0.6 | 1.4 |
| 4300.00 | -1.7 | -1.9 | -12.7 | -16.0 | 1.1 | 0.6 | 1.4 |
| 4400.00 | -1.7 | -2.0 | -12.4 | -15.1 | 1.1 | 0.6 | 1.3 |
| 4500.00 | -1.7 | -2.0 | -12.1 | -14.5 | 1.1 | 0.6 | 1.5 |
| 4600.00 | -1.8 | -2.0 | -11.9 | -13.9 | 1.1 | 0.6 | 0.9 |
| 4700.00 | -1.8 | -2.1 | -11.7 | -13.3 | 1.1 | 0.6 | 1.6 |
| 4800.00 | -1.8 | -2.1 | -11.5 | -13.0 | 1.1 | 0.6 | 1.5 |
| 4900.00 | -1.8 | -2.1 | -11.4 | -12.7 | 1.1 | 0.6 | 1.6 |
| 5000.00 | -1.8 | -2.1 | -11.2 | -12.4 | 1.1 | 0.6 | 1.5 |
| 5100.00 | -1.8 | -2.2 | -11.1 | -12.1 | 1.1 | 0.6 | 1.2 |
| 5200.00 | -1.8 | -2.2 | -11.0 | -11.9 | 1.1 | 0.6 | 1.1 |
| 5300.00 | -1.8 | -2.2 | -11.0 | -11.8 | 1.1 | 0.6 | 1.2 |
| 5400.00 | -1.8 | -2.3 | -11.0 | -11.7 | 1.1 | 0.6 | 1.2 |
| 5500.00 | -1.8 | -2.2 | -10.9 | -11.4 | 1.1 | 0.6 | 1.3 |
| 5600.00 | -1.8 | -2.2 | -11.0 | -11.4 | 1.1 | 0.6 | 1.6 |
| 5700.00 | -1.8 | -2.2 | -11.1 | -11.4 | 1.1 | 0.6 | 1.7 |
| 5800.00 | -1.7 | -2.2 | -11.2 | -11.3 | 1.1 | 0.5 | 1.7 |
| 5900.00 | -1.7 | -2.2 | -11.4 | -11.5 | 1.1 | 0.6 | 1.7 |
| 6000.00 | -1.7 | -2.2 | -11.4 | -11.3 | 1.1 | 0.5 | 1.5 |
| 6100.00 | -1.7 | -2.1 | -11.7 | -11.5 | 1.1 | 0.5 | 0.8 |
| 6200.00 | -1.7 | -2.2 | -12.0 | -11.7 | 1.1 | 0.5 | 1.9 |
| 6300.00 | -1.6 | -2.1 | -12.1 | -11.6 | 1.1 | 0.5 | 1.2 |
| 6400.00 | -1.6 | -2.1 | -12.4 | -11.8 | 1.1 | 0.5 | 1.5 |
| 6500.00 | -1.7 | -2.2 | -12.6 | -11.8 | 1.1 | 0.5 | 1.7 |
| 6600.00 | -1.6 | -2.1 | -12.6 | -11.8 | 1.1 | 0.5 | 0.8 |
| 6700.00 | -1.6 | -2.1 | -13.0 | -12.0 | 1.1 | 0.5 | 0.9 |
| 6800.00 | -1.6 | -2.1 | -13.1 | -12.1 | 1.1 | 0.5 | 1.1 |
| 6900.00 | -1.6 | -2.1 | -13.1 | -12.0 | 1.1 | 0.5 | 1.3 |
| 7000.00 | -1.6 | -2.2 | -13.2 | -12.0 | 1.1 | 0.6 | 1.8 |
| 7100.00 | -1.7 | -2.2 | -13.0 | -11.9 | 1.1 | 0.6 | 1.5 |
| 7200.00 | -1.7 | -2.2 | -12.9 | -11.9 | 1.1 | 0.6 | 1.9 |
| 7300.00 | -1.8 | -2.3 | -12.8 | -11.7 | 1.1 | 0.6 | 1.3 |
| 7400.00 | -1.8 | -2.3 | -12.4 | -11.4 | 1.1 | 0.6 | 1.2 |
| 7500.00 | -1.9 | -2.4 | -12.1 | -11.2 | 1.1 | 0.6 | 1.5 |
| 7600.00 | -2.0 | -2.5 | -11.7 | -10.9 | 1.1 | 0.6 | 1.6 |
| 7700.00 | -2.0 | -2.6 | -11.1 | -10.5 | 1.1 | 0.6 | 0.9 |
| 7800.00 | -2.1 | -2.6 | -10.8 | -10.2 | 1.1 | 0.6 | 1.7 |
| 7900.00 | -2.3 | -2.8 | -10.3 | -9.6 | 1.1 | 0.6 | 1.3 |
| 8000.00 | -2.3 | -2.8 | -9.6 | -9.1 | 1.1 | 0.6 | 2.3 |

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 41.9 | 42.6 | 42.9 | 42.9 | 38.0 | 30.4 | 22.1 |
| 1000.0 | 42.5 | 43.6 | 44.5 | 38.9 | 30.1 | 20.7 | 16.2 |
| 2000.0 | 43.4 | 44.6 | 45.5 | 44.1 | 37.7 | 28.5 | 19.3 |
| 4000.0 | 41.0 | 41.8 | 42.3 | 43.0 | 43.0 | 39.6 | 31.1 |
| 6000.0 | 43.3 | 43.5 | 44.4 | 45.0 | 44.6 | 38.8 | 28.5 |
| 8000.0 | 44.3 | 44.3 | 45.1 | 45.5 | 44.8 | 39.6 | 29.4 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 69.2 | 69.1 | 68.9 | 68.7 | 68.1 | 66.1 | 56.0 |
| 1000.0 | 70.2 | 70.4 | 70.6 | 70.8 | 69.8 | 59.3 | 52.6 |
| 2000.0 | 69.5 | 69.5 | 69.5 | 69.6 | 69.5 | 67.4 | 56.2 |
| 4000.0 | 71.2 | 71.1 | 71.2 | 71.2 | 71.4 | 71.3 | 70.9 |
| 6000.0 | 74.7 | 74.5 | 74.3 | 74.0 | 73.6 | 72.9 | 69.6 |
| 8000.0 | 83.9 | 84.0 | 84.0 | 83.9 | 83.9 | 83.5 | 81.6 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 15.9 | 13.1 |
| 1000.0 | 13.5 | 11.5 |
| 2000.0 | 15.2 | 12.8 |
| 4000.0 | 17.6 | 15.2 |
| 6000.0 | 18.4 | 15.3 |
| 8000.0 | 18.1 | 14.7 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = -45°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.6 | -2.1 | -20.9 | -18.4 | 1.1 | 0.6 | 1.6 |
| 5600.00 | -1.5 | -2.1 | -21.5 | -18.6 | 1.1 | 0.6 | 1.2 |
| 5700.00 | -1.5 | -2.1 | -21.4 | -18.5 | 1.1 | 0.6 | 1.4 |
| 5800.00 | -1.5 | -2.1 | -20.8 | -17.9 | 1.1 | 0.6 | 1.4 |
| 5900.00 | -1.5 | -2.1 | -19.6 | -17.2 | 1.1 | 0.6 | 1.4 |
| 6000.00 | -1.5 | -2.1 | -18.7 | -16.4 | 1.1 | 0.6 | 1.2 |
| 6100.00 | -1.5 | -2.1 | -17.4 | -15.5 | 1.1 | 0.6 | 1.5 |
| 6200.00 | -1.6 | -2.1 | -16.4 | -14.7 | 1.1 | 0.6 | 1.5 |
| 6300.00 | -1.6 | -2.2 | -15.2 | -13.8 | 1.1 | 0.6 | 1.7 |
| 6400.00 | -1.6 | -2.2 | -14.4 | -13.1 | 1.1 | 0.6 | 1.3 |
| 6500.00 | -1.7 | -2.3 | -13.5 | -12.4 | 1.1 | 0.6 | 1.8 |
| 6600.00 | -1.7 | -2.3 | -12.7 | -11.8 | 1.1 | 0.6 | 1.2 |
| 6700.00 | -1.8 | -2.4 | -11.8 | -11.1 | 1.1 | 0.6 | 1.5 |
| 6800.00 | -1.9 | -2.5 | -11.1 | -10.5 | 1.1 | 0.6 | 1.4 |
| 6900.00 | -2.0 | -2.6 | -10.4 | -9.9 | 1.1 | 0.6 | 1.6 |
| 7000.00 | -2.1 | -2.7 | -9.8 | -9.3 | 1.1 | 0.6 | 1.7 |
| 7100.00 | -2.2 | -2.8 | -9.1 | -8.7 | 1.1 | 0.6 | 1.4 |
| 7200.00 | -2.3 | -2.9 | -8.6 | -8.3 | 1.1 | 0.6 | 2.1 |
| 7300.00 | -2.5 | -3.1 | -8.0 | -7.8 | 1.1 | 0.6 | 1.6 |
| 7400.00 | -2.6 | -3.2 | -7.5 | -7.4 | 1.1 | 0.6 | 1.6 |
| 7500.00 | -2.8 | -3.4 | -7.0 | -6.9 | 1.1 | 0.6 | 2.2 |
| 7600.00 | -2.9 | -3.5 | -6.6 | -6.6 | 1.1 | 0.6 | 1.7 |
| 7700.00 | -3.1 | -3.7 | -6.1 | -6.1 | 1.1 | 0.6 | 1.1 |
| 7800.00 | -3.3 | -3.9 | -5.8 | -5.9 | 1.1 | 0.6 | 2.0 |
| 7900.00 | -3.5 | -4.0 | -5.4 | -5.5 | 1.1 | 0.6 | 1.9 |
| 8000.00 | -3.7 | -4.2 | -5.2 | -5.3 | 1.1 | 0.6 | 2.5 |
| 8100.00 | -3.9 | -4.4 | -4.8 | -4.9 | 1.1 | 0.5 | 2.4 |
| 8200.00 | -4.1 | -4.6 | -4.6 | -4.8 | 1.1 | 0.5 | 2.3 |
| 8300.00 | -4.3 | -4.8 | -4.2 | -4.4 | 1.1 | 0.5 | 2.2 |
| 8400.00 | -4.5 | -5.0 | -4.1 | -4.3 | 1.1 | 0.5 | 2.0 |
| 8500.00 | -4.6 | -5.1 | -3.8 | -4.0 | 1.1 | 0.5 | 1.2 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 17.5 | 14.5 |
| 6000.0 | 18.5 | 15.3 |
| 7000.0 | 20.3 | 16.4 |
| 8000.0 | 20.5 | 15.1 |
| 8500.0 | 19.1 | 13.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 71.2 | 71.1 | 70.9 | 70.6 | 70.3 | 69.5 | 66.6 | 40.5 | 40.9 | 41.3 | 40.6 | 40.8 | 40.7 | 36.0 |
| 6000.0 | 78.1 | 77.9 | 77.8 | 77.5 | 77.3 | 76.9 | 76.1 | 39.1 | 39.7 | 40.2 | 41.8 | 41.7 | 40.6 | 31.8 |
| 7000.0 | 90.3 | 90.3 | 90.1 | 89.9 | 89.7 | 89.3 | 88.7 | 39.7 | 40.1 | 39.6 | 41.6 | 41.7 | 40.2 | 32.5 |
| 8000.0 | 84.3 | 84.3 | 84.2 | 84.2 | 84.2 | 84.0 | 83.7 | 41.1 | 41.4 | 41.6 | 39.9 | 39.8 | 39.5 | 37.4 |
| 8500.0 | 90.8 | 90.8 | 90.7 | 90.5 | 90.4 | 91.8 | 88.3 | 40.6 | 41.6 | 42.8 | 44.5 | 44.9 | 32.7 | 20.1 |

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 69 mA, $I_{EN}$ = 2.04 mA @ Temperature = + 85°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.4 | -32.7 | -1.9 | -4.8 | 1.5 | 1.0 | 18.6 | 20.4 | 5.3 | 29.4 | 29.9 | 30.0 | 29.8 | 29.7 | 29.4 | 29.2 |
| 300.00 | 19.1 | -27.8 | -5.6 | -8.9 | 1.2 | 0.8 | 18.9 | 20.5 | 2.9 | 28.9 | 29.2 | 30.0 | 30.6 | 30.6 | 30.3 | 30.0 |
| 400.00 | 20.6 | -26.3 | -11.2 | -15.1 | 1.2 | 0.7 | 19.5 | 20.9 | 2.2 | 29.0 | 32.6 | 31.5 | 31.7 | 31.6 | 31.4 | 31.1 |
| 500.00 | 21.0 | -25.9 | -17.1 | -20.4 | 1.1 | 0.7 | 19.8 | 20.9 | 1.9 | 31.9 | 30.5 | 31.7 | 31.8 | 31.5 | 31.5 | 31.1 |
| 600.00 | 21.1 | -25.7 | -20.0 | -20.7 | 1.1 | 0.7 | 20.0 | 21.0 | 1.7 | 31.4 | 32.2 | 32.4 | 32.5 | 32.4 | 32.2 | 32.0 |
| 700.00 | 21.1 | -25.8 | -19.2 | -19.5 | 1.1 | 0.7 | 20.2 | 21.2 | 1.6 | 31.8 | 32.0 | 32.1 | 31.9 | 31.9 | 31.7 | 31.5 |
| 800.00 | 21.1 | -25.8 | -18.1 | -18.9 | 1.1 | 0.7 | 20.3 | 21.3 | 1.6 | 31.4 | 31.7 | 31.5 | 31.6 | 31.5 | 31.3 | 31.1 |
| 900.00 | 21.1 | -25.8 | -17.4 | -18.8 | 1.1 | 0.7 | 20.4 | 21.4 | 1.6 | 30.4 | 32.3 | 32.2 | 31.7 | 31.7 | 31.5 | 31.3 |
| 1000.00 | 21.1 | -25.9 | -16.9 | -19.1 | 1.1 | 0.7 | 20.4 | 21.4 | 1.6 | 32.5 | 31.3 | 32.5 | 32.5 | 32.2 | 32.1 | 31.9 |
| 1100.00 | 21.1 | -25.9 | -16.6 | -19.8 | 1.1 | 0.7 | 20.3 | 21.3 | 1.6 | 32.1 | 32.3 | 31.9 | 31.9 | 31.6 | 31.6 | 31.4 |
| 1200.00 | 21.1 | -25.9 | -16.4 | -20.8 | 1.1 | 0.7 | 20.4 | 21.5 | 1.6 | 32.0 | 31.2 | 31.7 | 31.4 | 31.3 | 31.2 | 31.1 |
| 1300.00 | 21.1 | -25.9 | -16.2 | -22.1 | 1.1 | 0.7 | 20.4 | 21.5 | 1.6 | 31.2 | 31.3 | 30.7 | 30.9 | 30.8 | 30.7 | 30.6 |
| 1400.00 | 21.1 | -26.0 | -16.1 | -23.8 | 1.2 | 0.7 | 20.3 | 21.4 | 1.6 | 31.2 | 31.6 | 31.7 | 31.3 | 31.3 | 31.2 | 31.1 |
| 1500.00 | 21.1 | -26.1 | -15.8 | -26.3 | 1.2 | 0.7 | 20.3 | 21.6 | 1.6 | 30.4 | 29.6 | 30.5 | 30.2 | 30.0 | 29.9 | 29.7 |
| 1600.00 | 21.1 | -26.2 | -15.3 | -29.3 | 1.2 | 0.7 | 20.2 | 21.5 | 1.7 | 30.3 | 30.0 | 30.8 | 30.6 | 30.5 | 30.4 | 30.3 |
| 1700.00 | 21.1 | -26.2 | -14.9 | -30.0 | 1.2 | 0.7 | 20.4 | 21.7 | 1.7 | 29.9 | 30.5 | 30.1 | 30.1 | 30.0 | 29.9 | 29.8 |
| 1800.00 | 21.1 | -26.3 | -14.5 | -28.6 | 1.2 | 0.7 | 20.1 | 21.6 | 1.7 | 29.8 | 30.1 | 30.2 | 29.9 | 30.0 | 29.9 | 29.7 |
| 1900.00 | 21.1 | -26.4 | -14.0 | -25.6 | 1.2 | 0.7 | 20.0 | 21.6 | 1.8 | 28.2 | 29.9 | 29.0 | 29.1 | 29.0 | 28.8 | 28.7 |
| 2000.00 | 21.1 | -26.4 | -13.4 | -22.8 | 1.2 | 0.7 | 19.9 | 21.5 | 1.8 | 29.7 | 29.3 | 29.5 | 29.5 | 29.4 | 29.3 | 29.1 |
| 2100.00 | 21.1 | -26.6 | -12.8 | -20.9 | 1.2 | 0.8 | 20.0 | 21.7 | 1.8 | 28.6 | 30.3 | 29.3 | 29.4 | 29.2 | 29.1 | 28.9 |
| 2200.00 | 21.0 | -26.7 | -12.3 | -19.3 | 1.2 | 0.8 | 19.8 | 21.6 | 1.8 | 29.8 | 30.1 | 30.0 | 29.8 | 29.8 | 29.6 | 29.4 |
| 2300.00 | 21.0 | -26.8 | -11.8 | -17.8 | 1.2 | 0.8 | 19.7 | 21.6 | 1.8 | 29.6 | 30.2 | 29.3 | 29.4 | 29.2 | 29.1 | 28.9 |
| 2400.00 | 21.0 | -26.9 | -11.3 | -16.7 | 1.2 | 0.8 | 19.6 | 21.8 | 1.8 | 28.1 | 28.6 | 28.1 | 28.0 | 28.0 | 27.7 | 27.6 |
| 2500.00 | 20.9 | -27.0 | -10.9 | -15.8 | 1.2 | 0.8 | 19.5 | 21.8 | 1.9 | 27.8 | 29.1 | 27.9 | 28.0 | 27.8 | 27.6 | 27.5 |
| 2600.00 | 20.9 | -27.1 | -10.6 | -14.9 | 1.2 | 0.8 | 19.3 | 21.9 | 1.9 | 27.4 | 27.3 | 27.9 | 27.8 | 27.6 | 27.4 | 27.2 |
| 2700.00 | 20.8 | -27.3 | -10.2 | -14.3 | 1.2 | 0.8 | 19.0 | 21.5 | 2.0 | 27.6 | 27.9 | 28.3 | 28.2 | 28.1 | 27.9 | 27.7 |
| 2800.00 | 20.8 | -27.4 | -9.9 | -13.7 | 1.2 | 0.8 | 18.9 | 21.4 | 2.0 | 27.6 | 28.3 | 28.0 | 27.9 | 27.6 | 27.4 | 27.1 |
| 2900.00 | 20.8 | -27.5 | -9.6 | -13.1 | 1.3 | 0.8 | 18.6 | 21.2 | 1.9 | 27.1 | | 26.8 | 26.8 | 26.5 | 26.3 | 26.0 |
| 3000.00 | 20.7 | -27.5 | -9.4 | -12.7 | 1.3 | 0.8 | 18.9 | 21.5 | 2.0 | 27.6 | 27.0 | 27.0 | 26.8 | 26.6 | 26.4 | 26.1 |
| 3100.00 | 20.7 | -27.6 | -9.1 | -12.3 | 1.3 | 0.8 | 18.8 | 21.8 | 2.1 | 25.8 | 27.1 | 26.5 | 26.4 | 26.1 | 25.9 | 25.7 |
| 3200.00 | 20.7 | -27.7 | -8.9 | -12.1 | 1.3 | 0.8 | 18.8 | 21.6 | 2.0 | 26.5 | 27.4 | 26.8 | 26.7 | 26.6 | 26.3 | 26.1 |
| 3300.00 | 20.7 | -27.7 | -8.8 | -11.9 | 1.3 | 0.8 | 18.7 | 21.5 | 2.0 | 26.8 | 26.9 | 26.8 | 26.7 | 26.4 | 26.2 | 25.9 |
| 3400.00 | 20.7 | -27.8 | -8.7 | -11.8 | 1.3 | 0.8 | 18.6 | 21.5 | 2.0 | 26.8 | 26.7 | 27.0 | 27.0 | 26.9 | 26.7 | 26.5 |
| 3500.00 | 20.7 | -27.8 | -8.7 | -11.8 | 1.3 | 0.8 | 18.7 | 21.6 | 2.0 | 26.7 | 26.9 | 26.5 | 26.4 | 26.2 | 25.9 | 25.7 |
| 3600.00 | 20.7 | -27.9 | -8.7 | -11.9 | 1.3 | 0.8 | 18.8 | 21.7 | 2.0 | 26.1 | 26.9 | 26.3 | 26.2 | 26.1 | 25.8 | 25.6 |
| 3700.00 | 20.8 | -27.8 | -8.8 | -12.0 | 1.3 | 0.8 | 18.9 | 21.7 | 2.0 | 27.2 | 27.4 | 27.5 | 27.4 | 27.3 | 27.1 | 26.8 |
| 3800.00 | 20.8 | -27.9 | -8.9 | -12.2 | 1.3 | 0.8 | 19.0 | 21.7 | 1.9 | 26.8 | 27.0 | 26.4 | 26.3 | 26.2 | 25.9 | 25.7 |
| 3900.00 | 20.8 | -27.9 | -9.1 | -12.4 | 1.3 | 0.8 | 19.1 | 21.7 | 1.9 | 27.5 | 27.4 | 26.9 | 26.5 | 26.4 | 26.2 | 25.9 |
| 4000.00 | 20.9 | -28.1 | -9.3 | -12.7 | 1.3 | 0.8 | 19.2 | 21.9 | 1.9 | 26.6 | 27.4 | 27.1 | 27.0 | 26.8 | 26.6 | 26.3 |
| 4100.00 | 20.9 | -27.9 | -9.6 | -13.2 | 1.3 | 0.8 | 19.3 | 21.9 | 1.9 | 26.5 | 26.7 | 26.4 | 26.6 | 26.3 | 26.2 | 25.8 |
| 4200.00 | 21.0 | -28.0 | -9.9 | -13.7 | 1.3 | 0.8 | 19.3 | 21.9 | 1.9 | 26.3 | 26.8 | 26.7 | 26.5 | 26.3 | 26.1 | 25.8 |
| 4300.00 | 21.1 | -28.1 | -10.2 | -14.0 | 1.3 | 0.8 | 19.3 | 22.0 | 1.8 | 26.9 | 26.5 | 26.8 | 26.7 | 26.5 | 26.3 | 26.0 |
| 4400.00 | 21.1 | -28.0 | -10.7 | -14.6 | 1.3 | 0.8 | 19.3 | 22.1 | 1.9 | 27.4 | 26.4 | 26.6 | 26.3 | 26.2 | 25.9 | 25.6 |
| 4500.00 | 21.2 | -28.1 | -11.0 | -15.2 | 1.3 | 0.8 | 19.2 | 22.1 | 1.9 | 26.1 | 26.3 | 26.3 | 26.4 | 26.1 | 25.8 | 25.4 |
| 4600.00 | 21.2 | -28.2 | -11.6 | -15.8 | 1.3 | 0.8 | 18.9 | 22.1 | 1.8 | 26.6 | 26.2 | 26.1 | 26.1 | 25.9 | 25.6 | 25.2 |
| 4700.00 | 21.3 | -28.2 | -12.1 | -16.5 | 1.3 | 0.8 | 18.9 | 21.9 | 1.9 | 26.4 | 26.1 | 25.9 | 25.9 | 25.6 | 25.3 | 25.0 |
| 4800.00 | 21.4 | -28.3 | -12.5 | -16.8 | 1.3 | 0.8 | 19.0 | 21.7 | 1.9 | 26.7 | 26.4 | 26.5 | 26.5 | 26.2 | 25.9 | 25.6 |
| 4900.00 | 21.4 | -28.4 | -13.1 | -17.3 | 1.3 | 0.8 | 18.8 | 21.7 | 1.9 | 25.8 | 26.3 | 25.9 | 25.7 | 25.5 | 25.1 | 24.8 |
| 5000.00 | 21.5 | -28.4 | -13.5 | -18.1 | 1.3 | 0.8 | 18.8 | 21.6 | 1.9 | 26.1 | 26.0 | 25.5 | 25.4 | 25.1 | 24.8 | 24.5 |
| 5100.00 | 21.5 | -28.6 | -13.8 | -18.3 | 1.4 | 0.8 | 19.0 | 21.3 | 1.9 | 25.5 | 26.5 | 25.5 | 25.4 | 25.2 | 25.0 | 24.8 |
| 5200.00 | 21.5 | -28.6 | -14.3 | -18.6 | 1.4 | 0.8 | 19.1 | 21.3 | 1.9 | 25.9 | 26.4 | 25.8 | 25.7 | 25.6 | 25.4 | 25.2 |
| 5300.00 | 21.6 | -28.7 | -14.1 | -18.7 | 1.4 | 0.8 | 19.0 | 21.5 | 1.9 | 25.7 | 26.6 | 25.6 | 25.4 | 25.3 | 25.1 | 25.0 |
| 5400.00 | 21.5 | -28.9 | -14.0 | -18.3 | 1.4 | 0.8 | 18.6 | 21.6 | 1.9 | 25.5 | 26.1 | 25.5 | 25.4 | 25.2 | 24.9 | 24.7 |
| 5500.00 | 21.5 | -28.8 | -14.1 | -18.8 | 1.4 | 0.8 | 18.1 | 21.4 | 1.8 | 24.7 | 25.9 | 24.7 | 24.6 | 24.3 | 24.0 | 23.8 |
| 5600.00 | 21.6 | -29.0 | -13.0 | -18.1 | 1.4 | 0.9 | 17.4 | 21.1 | 1.9 | 25.2 | 25.3 | 25.0 | 24.7 | 24.4 | 23.9 | 23.6 |
| 5700.00 | 21.4 | -29.3 | -12.6 | -17.3 | 1.4 | 0.9 | 17.2 | 20.8 | 1.9 | 24.3 | 25.3 | 24.1 | 23.8 | 23.4 | 22.8 | 22.8 |
| 5800.00 | 21.5 | -29.3 | -12.1 | -17.4 | 1.4 | 0.9 | 17.1 | 20.4 | 1.9 | 24.4 | 24.9 | 24.0 | 23.7 | 23.3 | 22.8 | 22.9 |
| 5900.00 | 21.4 | -29.6 | -10.8 | -16.0 | 1.4 | 0.9 | 17.2 | 20.1 | 2.0 | 24.6 | 24.3 | 24.3 | 23.9 | 23.6 | 23.1 | 23.1 |
| 6000.00 | 21.2 | -29.7 | -10.6 | -15.7 | 1.5 | 0.9 | 17.1 | 19.6 | 1.9 | 23.8 | 24.4 | 23.8 | 23.6 | 23.2 | 22.6 | 22.6 |
| 6100.00 | 21.3 | -29.8 | -9.6 | -15.0 | 1.5 | 0.9 | 17.1 | 19.3 | 2.0 | 24.5 | 24.5 | 24.3 | 24.0 | 23.7 | 23.2 | 23.2 |
| 6200.00 | 21.1 | -30.4 | -8.7 | -13.7 | 1.5 | 1.0 | 17.1 | 19.0 | 2.1 | 24.0 | 23.7 | 24.0 | 23.7 | 23.3 | 23.0 | 22.9 |
| 6300.00 | 20.9 | -30.4 | -8.4 | -13.3 | 1.5 | 1.0 | 16.9 | 18.7 | 2.1 | 23.2 | 24.0 | 23.3 | 23.1 | 22.8 | 22.5 | 22.7 |
| 6400.00 | 20.9 | -30.7 | -7.4 | -12.3 | 1.5 | 1.0 | 17.0 | 18.6 | 2.1 | 24.2 | 24.0 | 23.9 | 23.6 | 23.3 | 23.0 | 23.0 |
| 6500.00 | 20.6 | -31.3 | -6.9 | -11.4 | 1.6 | 1.0 | 17.2 | 18.8 | 2.1 | 23.4 | 23.1 | 23.5 | 23.2 | 22.8 | 22.5 | 22.7 |
| 6600.00 | 20.5 | -31.5 | -6.4 | -11.0 | 1.6 | 1.0 | 17.3 | 18.8 | 2.2 | 23.5 | 23.2 | 23.0 | 22.7 | 22.4 | 22.2 | 22.5 |
| 6700.00 | 20.2 | -32.1 | -5.6 | -10.0 | 1.6 | 1.0 | 17.2 | 18.6 | 2.3 | 23.3 | 22.9 | 23.1 | 22.8 | 22.5 | 22.2 | 22.5 |
| 6800.00 | 19.8 | -32.7 | -5.3 | -9.4 | 1.7 | 1.1 | 17.2 | 18.5 | 2.3 | 22.7 | 23.8 | 22.5 | 22.3 | 21.9 | 21.7 | 22.2 |
| 6900.00 | 19.6 | -33.2 | -4.9 | -9.0 | 1.8 | 1.1 | 17.1 | 18.2 | 2.3 | 22.6 | 22.2 | 22.3 | 22.0 | 21.7 | 21.6 | 22.2 |
| 7000.00 | 19.2 | -34.1 | -4.4 | -8.3 | 1.9 | 1.1 | 17.2 | 18.2 | 2.4 | 22.4 | 22.8 | 22.2 | 21.8 | 21.5 | 21.4 | 22.1 |
| 7100.00 | 18.7 | -34.9 | -4.2 | -7.9 | 2.1 | 1.1 | 17.0 | 17.9 | 2.3 | 22.5 | 22.5 | 22.2 | 21.8 | 21.5 | 21.4 | 22.2 |
| 7200.00 | 18.3 | -35.7 | -3.9 | -7.4 | 2.2 | 1.1 | 16.6 | 17.5 | 2.2 | 22.2 | 22.0 | 21.8 | 21.4 | 21.1 | 21.2 | 22.1 |
| 7300.00 | 17.7 | -37.1 | -3.6 | -7.0 | 2.6 | 1.1 | 16.3 | 17.1 | 2.4 | 21.4 | 22.4 | 21.1 | 20.7 | 20.4 | 20.8 | 21.9 |
| 7400.00 | 17.0 | -38.0 | -3.6 | -6.8 | 2.9 | 1.1 | 15.8 | 16.5 | 2.4 | 22.0 | 22.2 | 21.6 | 21.2 | 20.9 | 21.2 | 22.2 |
| 7500.00 | 16.4 | -39.5 | -3.4 | -6.5 | 3.5 | 1.1 | 15.4 | 16.0 | 2.5 | 20.7 | 21.2 | 20.3 | 19.9 | 19.8 | 20.6 | 21.4 |
| 7600.00 | 15.6 | -41.3 | -3.4 | -6.2 | 4.5 | 1.1 | 15.0 | 15.6 | 2.5 | 20.3 | 20.8 | 19.9 | 19.5 | 19.6 | 20.4 | 20.9 |
| 7700.00 | 14.9 | -42.1 | -3.5 | -6.1 | 5.3 | 1.1 | 14.4 | 15.0 | 2.6 | 19.6 | 20.2 | 19.0 | 18.7 | 19.1 | 20.2 | 19.7 |
| 7800.00 | 14.0 | -45.0 | -3.4 | -5.8 | 7.7 | 1.1 | 13.7 | 14.3 | 2.6 | 20.1 | 19.9 | 19.5 | 19.1 | 19.4 | 20.4 | 20.2 |
| 7900.00 | 12.7 | -45.7 | -3.6 | -5.5 | 9.7 | 1.0 | 12.7 | 13.3 | 2.6 | 18.0 | 18.1 | 17.3 | 17.6 | 18.5 | 18.0 | 13.3 |
| 8000.00 | 11.6 | -46.3 | -3.6 | -5.4 | 11.6 | 1.0 | 11.5 | 12.1 | 3.0 | 17.5 | 16.8 | 16.9 | 17.3 | 18.3 | 17.3 | 12.1 |

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 69 mA, $I_{EN}$ = 2.04 mA @ Temperature = + 85°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 38.3 | 38.3 | 38.3 | 38.1 | 38.1 | 37.7 | 37.4 |
| 1000.0 | 37.6 | 37.5 | 37.5 | 37.4 | 37.2 | 36.9 | 36.5 |
| 2000.0 | 37.3 | 36.9 | 36.7 | 36.5 | 36.2 | 35.9 | 35.5 |
| 4000.0 | 43.9 | 43.8 | 43.6 | 43.3 | 43.0 | 42.7 | 42.6 |
| 6000.0 | 32.8 | 32.6 | 32.3 | 32.0 | 31.5 | 31.1 | 30.9 |
| 8000.0 | 36.8 | 36.4 | 36.1 | 36.2 | 37.0 | 39.0 | 41.7 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 74 mA, $I_{EN}$ = 2.02 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 20.7 | -29.7 | -8.9 | -8.1 | 1.4 | 0.8 | 17.1 | 21.3 | 2.0 | 26.1 | 26.8 | 25.9 | 25.8 | 25.6 | 25.3 | 24.9 |
| 5600.00 | 20.8 | -29.8 | -8.7 | -8.2 | 1.4 | 0.8 | 16.6 | 21.1 | 2.0 | 25.0 | 24.7 | 24.7 | 24.5 | 24.2 | 23.8 | 23.4 |
| 5700.00 | 20.8 | -29.7 | -9.0 | -8.4 | 1.4 | 0.8 | 16.4 | 20.8 | 2.0 | 25.1 | 25.0 | 24.9 | 24.8 | 24.5 | 24.0 | 23.5 |
| 5800.00 | 20.9 | -29.8 | -8.8 | -8.5 | 1.4 | 0.8 | 16.5 | 20.5 | 2.0 | 25.1 | 25.3 | 25.0 | 24.8 | 24.5 | 24.0 | 23.5 |
| 5900.00 | 20.9 | -29.8 | -9.0 | -8.8 | 1.4 | 0.8 | 16.6 | 20.0 | 2.0 | 24.8 | 25.3 | 24.7 | 24.5 | 24.1 | 23.6 | 23.2 |
| 6000.00 | 21.0 | -29.9 | -8.7 | -8.8 | 1.4 | 0.8 | 16.6 | 19.6 | 2.0 | 23.9 | 24.0 | 23.5 | 23.2 | 22.7 | 22.2 | 22.3 |
| 6100.00 | 21.1 | -29.9 | -9.0 | -9.1 | 1.4 | 0.8 | 17.3 | 19.6 | 2.0 | 24.8 | 24.7 | 24.4 | 24.3 | 24.0 | 23.5 | 23.4 |
| 6200.00 | 21.1 | -30.2 | -8.7 | -9.1 | 1.5 | 0.8 | 17.6 | 19.6 | 2.0 | 24.2 | 24.2 | 24.1 | 23.8 | 23.6 | 23.2 | 23.2 |
| 6300.00 | 21.2 | -30.1 | -8.9 | -9.4 | 1.5 | 0.8 | 17.9 | 19.7 | 2.0 | 25.2 | 25.3 | 25.2 | 24.9 | 24.8 | 24.6 | 24.4 |
| 6400.00 | 21.2 | -30.4 | -8.6 | -9.4 | 1.5 | 0.8 | 18.0 | 19.7 | 2.0 | 25.3 | 25.1 | 24.9 | 24.8 | 24.7 | 24.5 | 24.5 |
| 6500.00 | 21.2 | -30.4 | -8.8 | -9.8 | 1.5 | 0.8 | 18.1 | 19.7 | 2.1 | 25.5 | 25.3 | 25.2 | 25.1 | 24.9 | 24.8 | 24.7 |
| 6600.00 | 21.3 | -30.6 | -8.6 | -9.9 | 1.5 | 0.9 | 18.4 | 19.8 | 2.0 | 25.6 | 25.2 | 25.3 | 25.1 | 25.0 | 24.8 | 24.8 |
| 6700.00 | 21.3 | -30.6 | -8.9 | -10.3 | 1.5 | 0.9 | 18.4 | 19.7 | 2.1 | 25.4 | 25.3 | 25.1 | 25.0 | 25.0 | 24.8 | 24.8 |
| 6800.00 | 21.3 | -31.0 | -8.7 | -10.4 | 1.6 | 0.9 | 18.5 | 19.8 | 2.1 | 25.6 | 25.4 | 25.6 | 25.5 | 25.3 | 25.3 | 25.2 |
| 6900.00 | 21.3 | -31.0 | -9.0 | -10.9 | 1.6 | 0.9 | 18.6 | 19.8 | 2.1 | 25.9 | 26.3 | 25.7 | 25.7 | 25.6 | 25.7 | 25.7 |
| 7000.00 | 21.3 | -31.4 | -8.7 | -11.1 | 1.7 | 0.9 | 18.7 | 19.8 | 2.2 | 25.9 | 25.2 | 25.3 | 25.3 | 25.2 | 25.2 | 25.3 |
| 7100.00 | 21.2 | -31.4 | -9.0 | -11.7 | 1.7 | 0.9 | 18.7 | 19.8 | 2.2 | 25.7 | 26.0 | 25.8 | 25.7 | 25.7 | 25.6 | 25.7 |
| 7200.00 | 21.2 | -31.9 | -8.8 | -11.9 | 1.8 | 0.9 | 18.7 | 19.8 | 2.2 | 26.0 | 26.1 | 25.7 | 25.7 | 25.7 | 25.7 | 25.8 |
| 7300.00 | 21.0 | -32.1 | -9.2 | -12.6 | 1.8 | 1.0 | 18.7 | 19.7 | 2.3 | 26.0 | 25.9 | 25.3 | 25.2 | 25.2 | 25.3 | 25.5 |
| 7400.00 | 21.0 | -32.6 | -8.9 | -12.9 | 1.9 | 1.0 | 18.8 | 19.8 | 2.3 | 25.3 | 25.4 | 25.5 | 25.4 | 25.3 | 25.4 | 25.6 |
| 7500.00 | 20.8 | -32.8 | -9.1 | -13.8 | 2.0 | 1.0 | 18.4 | 19.4 | 2.4 | 25.5 | 26.0 | 25.5 | 25.5 | 25.5 | 25.7 | 25.9 |
| 7600.00 | 20.6 | -33.6 | -8.6 | -14.0 | 2.2 | 1.0 | 18.4 | 19.4 | 2.5 | 26.1 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.7 |
| 7700.00 | 20.3 | -33.8 | -8.7 | -15.1 | 2.3 | 1.0 | 18.5 | 19.3 | 2.6 | 24.4 | 24.6 | 24.3 | 24.3 | 24.3 | 24.4 | 24.7 |
| 7800.00 | 20.0 | -34.8 | -8.0 | -15.1 | 2.6 | 1.1 | 18.1 | 19.0 | 2.7 | 25.4 | 25.7 | 25.4 | 25.3 | 25.3 | 25.5 | 25.8 |
| 7900.00 | 19.5 | -35.0 | -8.0 | -16.0 | 2.8 | 1.1 | 17.9 | 18.8 | 2.8 | 25.5 | 25.7 | 25.4 | 25.4 | 25.4 | 25.6 | 25.9 |
| 8000.00 | 19.0 | -36.5 | -7.1 | -15.0 | 3.3 | 1.1 | 17.6 | 18.5 | 2.9 | 24.9 | 24.8 | 24.7 | 24.8 | 24.9 | 25.1 | 25.4 |
| 8100.00 | 18.4 | -36.7 | -6.8 | -14.9 | 3.5 | 1.2 | 17.5 | 18.3 | 3.0 | 25.0 | 24.7 | 24.8 | 24.8 | 24.9 | 25.1 | 25.3 |
| 8200.00 | 17.5 | -38.3 | -5.8 | -13.2 | 4.2 | 1.2 | 17.2 | 18.0 | 3.2 | 24.3 | | 24.3 | 24.1 | 24.2 | 24.4 | 24.1 |
| 8300.00 | 16.9 | -38.4 | -5.5 | -12.4 | 4.3 | 1.2 | 17.0 | 17.7 | 3.4 | 24.4 | 24.9 | 24.6 | 24.5 | 24.6 | 24.8 | 24.7 |
| 8400.00 | 15.6 | -40.7 | -4.6 | -10.5 | 5.7 | 1.2 | 16.6 | 17.3 | 3.6 | 25.2 | 24.9 | 25.2 | 24.9 | 24.9 | 25.0 | 24.8 |
| 8500.00 | 14.8 | -40.9 | -4.2 | -9.7 | 6.0 | 1.2 | 16.1 | 16.8 | 3.8 | 24.1 | 23.8 | 23.8 | 23.8 | 23.7 | 23.6 | 22.3 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 35.6 | 35.6 | 35.5 | 35.1 | 34.9 | 34.5 | 34.2 |
| 6000.0 | 33.8 | 33.7 | 33.4 | 33.0 | 32.7 | 32.2 | 31.9 |
| 7000.0 | 44.0 | 43.9 | 43.6 | 43.3 | 43.0 | 42.7 | 42.6 |
| 8000.0 | 51.9 | 51.8 | 51.5 | 51.1 | 50.8 | 50.4 | 50.5 |
| 8500.0 | 60.0 | 59.7 | 59.4 | 59.0 | 58.6 | 58.6 | 59.2 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.8 | -4.0 | -9.0 | 1.1 | 0.9 | 3.5 |
| 300.00 | -2.3 | -2.4 | -6.7 | -11.8 | 1.0 | 0.7 | 2.2 |
| 400.00 | -1.7 | -1.8 | -9.3 | -14.0 | 1.0 | 0.6 | 2.1 |
| 500.00 | -1.4 | -1.5 | -12.1 | -15.7 | 1.0 | 0.5 | 1.9 |
| 600.00 | -1.3 | -1.4 | -15.0 | -17.0 | 1.0 | 0.5 | 1.3 |
| 700.00 | -1.2 | -1.3 | -18.2 | -17.9 | 1.0 | 0.4 | 1.4 |
| 800.00 | -1.2 | -1.3 | -22.2 | -18.1 | 1.0 | 0.4 | 1.5 |
| 900.00 | -1.2 | -1.2 | -27.4 | -17.8 | 1.0 | 0.4 | 1.4 |
| 1000.00 | -1.1 | -1.2 | -31.3 | -17.4 | 1.0 | 0.4 | 1.3 |
| 1100.00 | -1.1 | -1.2 | -26.8 | -17.1 | 1.0 | 0.4 | 1.6 |
| 1200.00 | -1.1 | -1.3 | -23.1 | -16.8 | 1.0 | 0.4 | 1.5 |
| 1300.00 | -1.1 | -1.3 | -20.6 | -16.4 | 1.0 | 0.4 | 1.1 |
| 1400.00 | -1.2 | -1.3 | -18.8 | -15.9 | 1.0 | 0.4 | 1.4 |
| 1500.00 | -1.2 | -1.4 | -17.4 | -15.6 | 1.0 | 0.4 | 1.6 |
| 1600.00 | -1.3 | -1.4 | -16.3 | -15.4 | 1.0 | 0.5 | 1.7 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.4 | 1.0 | 0.5 | 1.4 |
| 1800.00 | -1.3 | -1.5 | -14.8 | -15.3 | 1.0 | 0.5 | 1.8 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 1.7 |
| 2000.00 | -1.4 | -1.6 | -13.8 | -15.0 | 1.0 | 0.5 | 1.7 |
| 2100.00 | -1.4 | -1.6 | -13.5 | -15.2 | 1.0 | 0.5 | 1.5 |
| 2200.00 | -1.4 | -1.7 | -13.3 | -15.4 | 1.0 | 0.5 | 1.9 |
| 2300.00 | -1.5 | -1.7 | -13.2 | -15.6 | 1.0 | 0.5 | 1.9 |
| 2400.00 | -1.5 | -1.8 | -13.1 | -15.9 | 1.0 | 0.6 | 2.0 |
| 2500.00 | -1.5 | -1.8 | -13.0 | -16.3 | 1.0 | 0.6 | 2.0 |
| 2600.00 | -1.6 | -1.9 | -13.1 | -16.9 | 1.1 | 0.6 | 2.1 |
| 2700.00 | -1.6 | -1.9 | -13.2 | -17.6 | 1.1 | 0.6 | 2.0 |
| 2800.00 | -1.6 | -2.0 | -13.3 | -18.4 | 1.1 | 0.6 | 2.2 |
| 2900.00 | -1.6 | -2.0 | -13.5 | -19.2 | 1.1 | 0.6 | 2.1 |
| 3000.00 | -1.6 | -2.0 | -13.7 | -20.3 | 1.1 | 0.6 | 2.2 |
| 3100.00 | -1.6 | -2.0 | -13.8 | -21.8 | 1.1 | 0.6 | 2.2 |
| 3200.00 | -1.6 | -2.0 | -13.9 | -23.6 | 1.1 | 0.6 | 2.1 |
| 3300.00 | -1.6 | -2.0 | -14.0 | -25.3 | 1.1 | 0.6 | 2.3 |
| 3400.00 | -1.7 | -2.0 | -14.1 | -27.3 | 1.1 | 0.7 | 2.2 |
| 3500.00 | -1.7 | -2.0 | -14.0 | -28.3 | 1.1 | 0.7 | 2.2 |
| 3600.00 | -1.7 | -2.0 | -14.0 | -26.7 | 1.1 | 0.7 | 2.0 |
| 3700.00 | -1.7 | -2.0 | -13.9 | -24.2 | 1.1 | 0.7 | 2.1 |
| 3800.00 | -1.7 | -2.1 | -13.7 | -22.1 | 1.1 | 0.7 | 2.4 |
| 3900.00 | -1.7 | -2.1 | -13.5 | -20.4 | 1.1 | 0.6 | 2.2 |
| 4000.00 | -1.8 | -2.1 | -13.2 | -18.8 | 1.1 | 0.6 | 2.2 |
| 4100.00 | -1.8 | -2.1 | -12.9 | -17.4 | 1.1 | 0.6 | 2.1 |
| 4200.00 | -1.8 | -2.1 | -12.6 | -16.3 | 1.1 | 0.6 | 1.9 |
| 4300.00 | -1.8 | -2.2 | -12.4 | -15.5 | 1.1 | 0.6 | 2.0 |
| 4400.00 | -1.8 | -2.2 | -12.1 | -14.8 | 1.1 | 0.6 | 2.0 |
| 4500.00 | -1.8 | -2.2 | -11.8 | -14.1 | 1.1 | 0.6 | 2.3 |
| 4600.00 | -1.9 | -2.3 | -11.6 | -13.5 | 1.1 | 0.6 | 2.2 |
| 4700.00 | -1.9 | -2.3 | -11.4 | -13.1 | 1.1 | 0.6 | 2.2 |
| 4800.00 | -1.9 | -2.3 | -11.3 | -12.8 | 1.1 | 0.6 | 2.0 |
| 4900.00 | -1.9 | -2.4 | -11.2 | -12.5 | 1.1 | 0.6 | 2.0 |
| 5000.00 | -1.9 | -2.4 | -11.1 | -12.1 | 1.1 | 0.6 | 1.6 |
| 5100.00 | -1.9 | -2.4 | -11.0 | -11.9 | 1.1 | 0.6 | 2.2 |
| 5200.00 | -1.9 | -2.4 | -11.0 | -11.8 | 1.1 | 0.6 | 2.0 |
| 5300.00 | -1.9 | -2.4 | -11.0 | -11.7 | 1.1 | 0.6 | 1.3 |
| 5400.00 | -1.9 | -2.4 | -11.0 | -11.6 | 1.1 | 0.6 | 1.6 |
| 5500.00 | -1.9 | -2.4 | -11.0 | -11.5 | 1.1 | 0.6 | 2.0 |
| 5600.00 | -1.9 | -2.4 | -11.3 | -11.6 | 1.1 | 0.6 | 1.8 |
| 5700.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 2.1 |
| 5800.00 | -1.8 | -2.4 | -11.5 | -11.6 | 1.1 | 0.6 | 1.8 |
| 5900.00 | -1.8 | -2.4 | -11.8 | -11.8 | 1.1 | 0.6 | 1.6 |
| 6000.00 | -1.8 | -2.4 | -11.9 | -11.8 | 1.1 | 0.6 | 1.3 |
| 6100.00 | -1.7 | -2.4 | -12.3 | -12.0 | 1.1 | 0.6 | 1.6 |
| 6200.00 | -1.7 | -2.4 | -12.7 | -12.3 | 1.1 | 0.6 | 1.7 |
| 6300.00 | -1.7 | -2.4 | -12.9 | -12.3 | 1.1 | 0.6 | 1.7 |
| 6400.00 | -1.7 | -2.3 | -13.3 | -12.6 | 1.1 | 0.6 | 2.3 |
| 6500.00 | -1.7 | -2.4 | -13.6 | -12.7 | 1.1 | 0.6 | 1.9 |
| 6600.00 | -1.6 | -2.3 | -13.8 | -12.8 | 1.1 | 0.6 | 1.5 |
| 6700.00 | -1.6 | -2.3 | -14.4 | -13.1 | 1.1 | 0.6 | 1.7 |
| 6800.00 | -1.6 | -2.4 | -14.6 | -13.2 | 1.1 | 0.6 | 2.1 |
| 6900.00 | -1.6 | -2.3 | -14.7 | -13.2 | 1.1 | 0.6 | 2.2 |
| 7000.00 | -1.6 | -2.4 | -14.9 | -13.4 | 1.1 | 0.6 | 1.6 |
| 7100.00 | -1.7 | -2.4 | -14.8 | -13.4 | 1.1 | 0.6 | 1.7 |
| 7200.00 | -1.7 | -2.4 | -14.7 | -13.4 | 1.1 | 0.6 | 1.7 |
| 7300.00 | -1.7 | -2.5 | -14.5 | -13.2 | 1.1 | 0.6 | 2.2 |
| 7400.00 | -1.8 | -2.5 | -14.0 | -12.8 | 1.1 | 0.6 | 1.7 |
| 7500.00 | -1.9 | -2.6 | -13.5 | -12.6 | 1.1 | 0.6 | 1.5 |
| 7600.00 | -2.0 | -2.7 | -13.0 | -12.3 | 1.1 | 0.6 | 1.4 |
| 7700.00 | -2.1 | -2.8 | -12.2 | -11.6 | 1.2 | 0.6 | 1.5 |
| 7800.00 | -2.2 | -2.9 | -11.7 | -11.2 | 1.2 | 0.7 | 0.8 |
| 7900.00 | -2.4 | -3.1 | -11.1 | -10.6 | 1.2 | 0.7 | 1.5 |
| 8000.00 | -2.4 | -3.1 | -10.1 | -9.9 | 1.2 | 0.7 | 1.5 |

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 32.3 | 30.9 | 28.6 | 25.3 | 20.7 | 15.8 | 15.0 |
| 1000.0 | 34.3 | 33.0 | 30.8 | 27.4 | 21.8 | 15.3 | 15.6 |
| 2000.0 | 36.5 | 35.6 | 34.1 | 31.7 | 27.9 | 21.0 | 16.7 |
| 4000.0 | 36.8 | 36.8 | 36.1 | 34.7 | 32.2 | 28.4 | 22.2 |
| 6000.0 | 37.9 | 37.5 | 36.7 | 34.8 | 31.7 | 26.5 | 18.7 |
| 8000.0 | 38.3 | 38.0 | 37.1 | 35.3 | 32.3 | 27.4 | 18.6 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 71.9 | 71.7 | 70.6 | 67.9 | 61.1 | 48.3 | 46.4 |
| 1000.0 | 71.4 | 71.5 | 71.6 | 70.7 | 63.6 | 52.0 | 54.8 |
| 2000.0 | 72.1 | 71.9 | 71.6 | 71.1 | 69.3 | 61.8 | 52.9 |
| 4000.0 | 72.2 | 72.2 | 72.2 | 72.6 | 73.1 | 73.3 | 58.2 |
| 6000.0 | 72.4 | 72.3 | 72.0 | 71.7 | 71.0 | 67.8 | 58.5 |
| 8000.0 | 83.7 | 83.6 | 83.5 | 83.3 | 82.6 | 80.4 | 71.3 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 12.4 | 9.5 |
| 1000.0 | 12.0 | 9.8 |
| 2000.0 | 13.7 | 11.4 |
| 4000.0 | 15.9 | 13.4 |
| 6000.0 | 16.3 | 13.5 |
| 8000.0 | 16.2 | 12.9 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.4 | -20.3 | -17.5 | 1.1 | 0.7 | 2.8 |
| 5600.00 | -1.7 | -2.4 | -20.8 | -17.4 | 1.1 | 0.7 | 2.6 |
| 5700.00 | -1.7 | -2.4 | -20.6 | -17.1 | 1.1 | 0.7 | 2.6 |
| 5800.00 | -1.7 | -2.4 | -20.1 | -16.5 | 1.1 | 0.7 | 2.7 |
| 5900.00 | -1.7 | -2.4 | -19.1 | -16.0 | 1.1 | 0.7 | 2.8 |
| 6000.00 | -1.7 | -2.4 | -18.3 | -15.3 | 1.1 | 0.7 | 2.5 |
| 6100.00 | -1.7 | -2.5 | -17.2 | -14.6 | 1.1 | 0.7 | 2.7 |
| 6200.00 | -1.7 | -2.5 | -16.3 | -14.0 | 1.1 | 0.7 | 3.0 |
| 6300.00 | -1.7 | -2.5 | -15.3 | -13.3 | 1.1 | 0.7 | 2.7 |
| 6400.00 | -1.7 | -2.6 | -14.5 | -12.8 | 1.1 | 0.7 | 2.6 |
| 6500.00 | -1.8 | -2.6 | -13.7 | -12.2 | 1.1 | 0.7 | 2.6 |
| 6600.00 | -1.8 | -2.7 | -13.0 | -11.7 | 1.1 | 0.7 | 2.7 |
| 6700.00 | -1.9 | -2.7 | -12.3 | -11.1 | 1.1 | 0.7 | 2.8 |
| 6800.00 | -1.9 | -2.8 | -11.7 | -10.7 | 1.1 | 0.7 | 3.0 |
| 6900.00 | -2.0 | -2.9 | -11.0 | -10.2 | 1.1 | 0.6 | 3.0 |
| 7000.00 | -2.1 | -3.0 | -10.5 | -9.7 | 1.1 | 0.6 | 3.1 |
| 7100.00 | -2.2 | -3.1 | -9.8 | -9.2 | 1.1 | 0.6 | 2.7 |
| 7200.00 | -2.3 | -3.2 | -9.3 | -8.8 | 1.1 | 0.6 | 3.0 |
| 7300.00 | -2.4 | -3.3 | -8.8 | -8.4 | 1.1 | 0.6 | 3.3 |
| 7400.00 | -2.5 | -3.4 | -8.3 | -8.0 | 1.1 | 0.6 | 2.8 |
| 7500.00 | -2.7 | -3.6 | -7.8 | -7.6 | 1.1 | 0.6 | 3.4 |
| 7600.00 | -2.8 | -3.7 | -7.4 | -7.2 | 1.2 | 0.6 | 3.2 |
| 7700.00 | -3.0 | -3.9 | -6.9 | -6.8 | 1.2 | 0.6 | 3.1 |
| 7800.00 | -3.2 | -4.0 | -6.5 | -6.5 | 1.2 | 0.6 | 2.9 |
| 7900.00 | -3.4 | -4.2 | -6.1 | -6.1 | 1.2 | 0.6 | 3.8 |
| 8000.00 | -3.6 | -4.4 | -5.8 | -5.8 | 1.2 | 0.6 | 3.8 |
| 8100.00 | -3.8 | -4.6 | -5.3 | -5.4 | 1.2 | 0.6 | 3.9 |
| 8200.00 | -4.0 | -4.8 | -5.1 | -5.2 | 1.2 | 0.6 | 3.9 |
| 8300.00 | -4.2 | -5.0 | -4.7 | -4.8 | 1.2 | 0.6 | 3.8 |
| 8400.00 | -4.5 | -5.2 | -4.5 | -4.7 | 1.2 | 0.6 | 3.4 |
| 8500.00 | -4.6 | -5.4 | -4.2 | -4.4 | 1.2 | 0.6 | 3.3 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 15.6 | 12.3 |
| 6000.0 | 16.0 | 13.0 |
| 7000.0 | 17.7 | 13.9 |
| 8000.0 | 18.3 | 12.9 |
| 8500.0 | 17.1 | 11.6 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 69.7 | 69.7 | 69.5 | 69.4 | 68.6 | 65.6 | 60.3 | 39.6 | 39.1 | 38.3 | 37.7 | 35.3 | 31.7 | 26.0 |
| 6000.0 | 75.2 | 75.2 | 75.2 | 75.1 | 74.9 | 74.1 | 70.0 | 39.1 | 38.9 | 38.8 | 37.0 | 34.1 | 29.5 | 20.3 |
| 7000.0 | 86.7 | 86.5 | 86.4 | 86.2 | 85.7 | 84.4 | 79.7 | 39.4 | 39.6 | 39.1 | 36.4 | 33.6 | 29.8 | 24.0 |
| 8000.0 | 84.0 | 84.0 | 83.9 | 83.7 | 83.3 | 82.2 | 77.3 | 39.5 | 39.3 | 38.7 | 38.1 | 36.3 | 33.1 | 27.6 |
| 8500.0 | 92.6 | 92.5 | 92.5 | 92.5 | 92.4 | 91.1 | 92.8 | 38.8 | 38.1 | 37.0 | 34.3 | 29.9 | 21.9 | 16.2 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 75 mA, $I_{EN}$ = 2.15 mA @ Temperature = + 85°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.6 | -32.7 | -1.9 | -4.7 | 1.5 | 1.0 | 18.8 | 20.3 | 5.3 | 30.9 | 31.5 | 30.6 | 30.8 | 30.6 | 30.2 | 30.0 |
| 300.00 | 19.3 | -27.9 | -5.7 | -8.9 | 1.2 | 0.8 | 19.2 | 20.6 | 2.9 | 31.0 | 31.4 | 31.1 | 31.7 | 31.4 | 31.3 | 31.0 |
| 400.00 | 20.8 | -26.4 | -11.5 | -15.1 | 1.2 | 0.7 | 19.8 | 21.1 | 2.2 | 30.9 | 31.1 | 32.4 | 32.7 | 32.6 | 32.4 | 32.1 |
| 500.00 | 21.2 | -26.0 | -17.5 | -19.9 | 1.1 | 0.7 | 20.2 | 21.3 | 1.9 | 31.7 | 31.8 | 32.1 | 32.8 | 32.7 | 32.5 | 32.1 |
| 600.00 | 21.3 | -25.9 | -19.8 | -19.6 | 1.1 | 0.7 | 20.5 | 21.5 | 1.7 | 33.0 | 33.0 | 33.3 | 33.4 | 33.6 | 33.3 | 33.0 |
| 700.00 | 21.3 | -25.9 | -18.6 | -18.5 | 1.1 | 0.6 | 20.7 | 21.7 | 1.5 | 32.0 | 33.9 | 33.1 | 32.7 | 33.0 | 32.7 | 32.5 |
| 800.00 | 21.3 | -26.0 | -17.6 | -17.9 | 1.1 | 0.7 | 20.9 | 21.8 | 1.6 | 31.2 | 33.0 | 32.1 | 32.3 | 32.5 | 32.3 | 32.1 |
| 900.00 | 21.3 | -26.0 | -16.9 | -17.8 | 1.1 | 0.7 | 21.0 | 21.9 | 1.6 | 34.1 | 32.7 | 33.0 | 32.8 | 32.7 | 32.6 | 32.3 |
| 1000.00 | 21.3 | -26.0 | -16.4 | -18.1 | 1.1 | 0.7 | 21.0 | 21.9 | 1.6 | 31.1 | 33.4 | 33.2 | 33.4 | 33.2 | 33.0 | 32.9 |
| 1100.00 | 21.3 | -26.1 | -16.3 | -18.7 | 1.1 | 0.7 | 20.9 | 21.9 | 1.6 | 31.9 | 33.6 | 33.2 | 32.6 | 32.7 | 32.6 | 32.4 |
| 1200.00 | 21.3 | -26.1 | -16.2 | -19.5 | 1.1 | 0.7 | 21.1 | 22.0 | 1.6 | 33.0 | 33.2 | 32.5 | 32.3 | 32.4 | 32.1 | 32.0 |
| 1300.00 | 21.3 | -26.1 | -16.1 | -20.6 | 1.1 | 0.7 | 21.1 | 22.1 | 1.6 | 30.7 | 32.5 | 32.1 | 31.9 | 31.9 | 31.7 | 31.5 |
| 1400.00 | 21.3 | -26.2 | -16.1 | -22.1 | 1.2 | 0.7 | 21.0 | 22.0 | 1.6 | 33.4 | 32.2 | 32.3 | 32.4 | 32.4 | 32.3 | 32.0 |
| 1500.00 | 21.3 | -26.3 | -16.0 | -24.2 | 1.2 | 0.7 | 20.9 | 22.1 | 1.6 | 31.7 | 31.1 | 31.4 | 31.1 | 31.0 | 30.9 | 30.7 |
| 1600.00 | 21.3 | -26.4 | -15.6 | -26.8 | 1.2 | 0.7 | 21.0 | 22.1 | 1.7 | 30.7 | 31.1 | 31.8 | 31.8 | 31.5 | 31.5 | 31.2 |
| 1700.00 | 21.3 | -26.4 | -15.3 | -28.4 | 1.2 | 0.7 | 21.1 | 22.2 | 1.7 | 30.9 | 30.7 | 31.7 | 31.0 | 31.0 | 30.9 | 30.7 |
| 1800.00 | 21.3 | -26.5 | -15.0 | -29.3 | 1.2 | 0.7 | 20.9 | 22.2 | 1.8 | 32.3 | 30.9 | 31.0 | 31.0 | 30.9 | 30.8 | 30.6 |
| 1900.00 | 21.3 | -26.5 | -14.5 | -27.3 | 1.2 | 0.7 | 20.8 | 22.2 | 1.8 | 29.5 | 30.9 | 30.2 | 30.1 | 29.9 | 29.8 | 29.6 |
| 2000.00 | 21.3 | -26.6 | -14.0 | -24.4 | 1.2 | 0.7 | 20.5 | 22.0 | 1.8 | 34.0 | 30.8 | 30.5 | 30.5 | 30.5 | 30.2 | 30.0 |
| 2100.00 | 21.3 | -26.7 | -13.4 | -22.2 | 1.2 | 0.8 | 20.7 | 22.2 | 1.8 | 29.1 | 30.7 | 30.0 | 30.2 | 30.1 | 30.0 | 29.8 |
| 2200.00 | 21.3 | -26.8 | -12.9 | -20.5 | 1.2 | 0.8 | 20.5 | 22.1 | 1.8 | 28.9 | 30.8 | 31.3 | 30.7 | 30.6 | 30.5 | 30.4 |
| 2300.00 | 21.2 | -26.9 | -12.3 | -18.8 | 1.2 | 0.8 | 20.5 | 22.3 | 1.9 | 30.2 | 30.5 | 30.4 | 30.2 | 30.2 | 30.0 | 29.8 |
| 2400.00 | 21.2 | -27.1 | -11.8 | -17.5 | 1.2 | 0.8 | 20.3 | 22.3 | 1.9 | 28.8 | 29.5 | 29.3 | 29.0 | 28.9 | 28.7 | 28.4 |
| 2500.00 | 21.2 | -27.1 | -11.4 | -16.5 | 1.2 | 0.8 | 20.1 | 22.4 | 1.9 | 29.5 | 29.9 | 28.9 | 28.9 | 28.8 | 28.6 | 28.3 |
| 2600.00 | 21.1 | -27.3 | -11.0 | -15.6 | 1.2 | 0.8 | 19.9 | 22.4 | 1.9 | 28.9 | 28.4 | 28.6 | 28.6 | 28.7 | 28.4 | 28.1 |
| 2700.00 | 21.1 | -27.4 | -10.7 | -14.9 | 1.2 | 0.8 | 19.6 | 22.0 | 2.0 | 29.4 | 28.8 | 29.2 | 29.3 | 29.0 | 28.8 | 28.6 |
| 2800.00 | 21.1 | -27.5 | -10.3 | -14.3 | 1.2 | 0.8 | 19.5 | 21.8 | 2.0 | 28.9 | 28.8 | 28.9 | 28.7 | 28.5 | 28.4 | 28.1 |
| 2900.00 | 21.0 | -27.6 | -10.0 | -13.6 | 1.2 | 0.8 | 19.2 | 21.7 | 2.0 | 28.1 | | 27.6 | 27.8 | 27.5 | 27.2 | 26.9 |
| 3000.00 | 21.0 | -27.6 | -9.7 | -13.2 | 1.3 | 0.8 | 19.4 | 21.9 | 2.0 | 26.9 | 27.5 | 27.9 | 27.8 | 27.6 | 27.3 | 27.0 |
| 3100.00 | 21.0 | -27.8 | -9.4 | -12.8 | 1.3 | 0.8 | 19.3 | 22.1 | 2.1 | 27.4 | 27.8 | 27.5 | 27.3 | 27.1 | 26.9 | 26.5 |
| 3200.00 | 20.9 | -27.8 | -9.2 | -12.5 | 1.3 | 0.8 | 19.3 | 22.1 | 2.0 | 27.9 | 28.3 | 27.8 | 27.7 | 27.5 | 27.3 | 27.0 |
| 3300.00 | 20.9 | -27.8 | -9.1 | -12.4 | 1.3 | 0.8 | 19.1 | 21.9 | 2.0 | 27.8 | 28.1 | 27.7 | 27.6 | 27.4 | 27.1 | 26.8 |
| 3400.00 | 20.9 | -27.9 | -9.0 | -12.2 | 1.3 | 0.8 | 18.9 | 21.7 | 2.1 | 28.3 | 27.8 | 27.8 | 28.0 | 27.8 | 27.6 | 27.4 |
| 3500.00 | 21.0 | -27.9 | -9.0 | -12.2 | 1.3 | 0.8 | 19.1 | 21.9 | 2.0 | 27.4 | 27.8 | 27.2 | 27.3 | 27.1 | 26.9 | 26.6 |
| 3600.00 | 21.0 | -27.9 | -9.0 | -12.3 | 1.3 | 0.8 | 19.1 | 21.9 | 2.0 | 27.5 | 27.3 | 27.1 | 27.1 | 27.0 | 26.8 | 26.5 |
| 3700.00 | 21.0 | -28.0 | -9.0 | -12.4 | 1.3 | 0.8 | 19.3 | 22.1 | 2.0 | 27.6 | 28.5 | 28.5 | 28.1 | 28.2 | 28.0 | 27.8 |
| 3800.00 | 21.1 | -28.0 | -9.2 | -12.6 | 1.3 | 0.8 | 19.3 | 22.1 | 2.0 | 26.8 | 28.4 | 27.2 | 27.3 | 27.1 | 26.9 | 26.6 |
| 3900.00 | 21.1 | -28.1 | -9.3 | -12.9 | 1.3 | 0.8 | 19.4 | 22.2 | 2.0 | 27.7 | 28.5 | 27.8 | 27.5 | 27.4 | 27.2 | 26.9 |
| 4000.00 | 21.1 | -28.1 | -9.5 | -13.2 | 1.3 | 0.8 | 19.3 | 22.3 | 1.9 | 27.3 | 27.5 | 28.0 | 27.8 | 27.8 | 27.6 | 27.3 |
| 4100.00 | 21.2 | -28.1 | -9.8 | -13.7 | 1.3 | 0.8 | 19.5 | 22.4 | 1.9 | 27.2 | 27.0 | 27.6 | 27.4 | 27.3 | 27.1 | 26.8 |
| 4200.00 | 21.3 | -28.2 | -10.1 | -14.2 | 1.3 | 0.8 | 19.6 | 22.4 | 1.9 | 27.8 | 27.9 | 27.6 | 27.5 | 27.3 | 27.1 | 26.9 |
| 4300.00 | 21.3 | -28.2 | -10.4 | -14.6 | 1.3 | 0.8 | 19.4 | 22.4 | 1.8 | 27.7 | 27.6 | 27.7 | 27.7 | 27.5 | 27.3 | 27.1 |
| 4400.00 | 21.4 | -28.2 | -10.9 | -15.2 | 1.3 | 0.8 | 19.3 | 22.4 | 1.8 | 27.7 | 27.2 | 27.4 | 27.3 | 27.2 | 27.0 | 26.7 |
| 4500.00 | 21.4 | -28.2 | -11.2 | -15.8 | 1.3 | 0.8 | 19.1 | 22.4 | 1.9 | 27.6 | 27.4 | 27.3 | 27.2 | 27.0 | 26.8 | 26.5 |
| 4600.00 | 21.5 | -28.3 | -11.8 | -16.5 | 1.3 | 0.8 | 18.8 | 22.3 | 1.9 | 27.0 | 27.4 | 27.2 | 27.0 | 26.8 | 26.6 | 26.3 |
| 4700.00 | 21.5 | -28.4 | -12.3 | -17.3 | 1.3 | 0.8 | 19.0 | 22.2 | 1.9 | 26.8 | 27.1 | 26.9 | 26.7 | 26.6 | 26.3 | 26.0 |
| 4800.00 | 21.6 | -28.5 | -12.7 | -17.6 | 1.3 | 0.8 | 19.2 | 22.1 | 1.9 | 28.1 | 27.0 | 27.4 | 27.3 | 27.1 | 27.0 | 26.7 |
| 4900.00 | 21.6 | -28.5 | -13.4 | -18.2 | 1.3 | 0.8 | 19.1 | 22.1 | 1.9 | 26.7 | 27.0 | 26.9 | 26.7 | 26.4 | 26.2 | 25.8 |
| 5000.00 | 21.7 | -28.5 | -13.8 | -19.1 | 1.3 | 0.8 | 19.2 | 22.0 | 1.9 | 26.8 | 26.6 | 26.3 | 26.2 | 26.1 | 25.8 | 25.4 |
| 5100.00 | 21.8 | -28.6 | -14.1 | -19.2 | 1.3 | 0.8 | 19.5 | 22.0 | 1.9 | 26.2 | 27.3 | 26.3 | 26.2 | 26.1 | 25.9 | 25.7 |
| 5200.00 | 21.7 | -28.7 | -14.7 | -19.7 | 1.4 | 0.8 | 19.6 | 21.9 | 1.9 | 26.6 | 26.8 | 26.6 | 26.5 | 26.4 | 26.2 | 26.1 |
| 5300.00 | 21.8 | -28.8 | -14.5 | -19.7 | 1.4 | 0.8 | 19.2 | 22.0 | 1.9 | 26.7 | 27.1 | 26.3 | 26.3 | 26.2 | 26.0 | 25.8 |
| 5400.00 | 21.8 | -29.0 | -14.4 | -19.3 | 1.4 | 0.8 | 18.6 | 21.9 | 1.9 | 26.8 | 26.6 | 26.4 | 26.2 | 26.0 | 25.8 | 25.6 |
| 5500.00 | 21.8 | -28.9 | -14.5 | -19.9 | 1.4 | 0.8 | 18.1 | 21.6 | 1.9 | 25.5 | 26.6 | 25.4 | 25.4 | 25.2 | 24.9 | 24.6 |
| 5600.00 | 21.8 | -29.1 | -13.4 | -19.0 | 1.4 | 0.9 | 17.5 | 21.2 | 1.9 | 26.1 | 26.2 | 25.6 | 25.6 | 25.3 | 24.9 | 24.5 |
| 5700.00 | 21.7 | -29.4 | -12.9 | -18.2 | 1.4 | 0.9 | 17.4 | 20.9 | 1.9 | 25.5 | 26.2 | 24.9 | 24.6 | 24.3 | 23.9 | 23.4 |
| 5800.00 | 21.7 | -29.3 | -12.4 | -18.2 | 1.4 | 0.9 | 17.5 | 20.5 | 1.9 | 25.1 | 25.4 | 24.9 | 24.6 | 24.2 | 23.8 | 23.4 |
| 5900.00 | 21.7 | -29.7 | -11.0 | -16.7 | 1.4 | 0.9 | 17.6 | 20.2 | 1.9 | 25.6 | 25.1 | 24.9 | 24.7 | 24.4 | 24.0 | 23.7 |
| 6000.00 | 21.5 | -29.8 | -10.8 | -16.3 | 1.5 | 0.9 | 17.6 | 19.7 | 1.9 | 24.7 | 25.0 | 24.6 | 24.4 | 24.0 | 23.6 | 23.2 |
| 6100.00 | 21.6 | -29.9 | -9.8 | -15.5 | 1.4 | 0.9 | 17.7 | 19.6 | 2.1 | 25.0 | 25.2 | 25.0 | 24.7 | 24.5 | 24.1 | 23.8 |
| 6200.00 | 21.3 | -30.5 | -8.8 | -14.1 | 1.5 | 1.0 | 17.8 | 19.3 | 2.1 | 25.0 | 24.3 | 24.6 | 24.4 | 24.2 | 23.8 | 23.6 |
| 6300.00 | 21.2 | -30.5 | -8.5 | -13.7 | 1.5 | 1.0 | 17.7 | 19.2 | 2.2 | 24.0 | 24.7 | 24.0 | 23.8 | 23.6 | 23.3 | 23.3 |
| 6400.00 | 21.2 | -30.8 | -7.5 | -12.6 | 1.5 | 1.0 | 17.7 | 19.1 | 2.2 | 24.7 | 24.8 | 24.5 | 24.3 | 24.1 | 23.8 | 23.7 |
| 6500.00 | 20.9 | -31.4 | -6.9 | -11.7 | 1.6 | 1.0 | 17.9 | 19.2 | 2.2 | 24.6 | 23.9 | 24.1 | 23.9 | 23.7 | 23.4 | 23.3 |
| 6600.00 | 20.7 | -31.6 | -6.4 | -11.2 | 1.6 | 1.0 | 18.0 | 19.3 | 2.3 | 24.2 | 23.9 | 23.8 | 23.5 | 23.3 | 23.0 | 23.0 |
| 6700.00 | 20.5 | -32.3 | -5.7 | -10.2 | 1.6 | 1.0 | 17.9 | 19.1 | 2.3 | 24.2 | 23.6 | 23.9 | 23.6 | 23.4 | 23.0 | 23.0 |
| 6800.00 | 20.1 | -33.0 | -5.3 | -9.6 | 1.7 | 1.1 | 17.8 | 18.9 | 2.3 | 23.5 | 24.6 | 23.3 | 23.1 | 22.8 | 22.5 | 22.7 |
| 6900.00 | 19.9 | -33.3 | -4.9 | -9.1 | 1.8 | 1.1 | 17.7 | 18.7 | 2.3 | 23.3 | 22.9 | 23.0 | 22.8 | 22.5 | 22.3 | 22.6 |
| 7000.00 | 19.4 | -34.4 | -4.4 | -8.4 | 1.9 | 1.1 | 17.6 | 18.6 | 2.4 | 23.3 | 23.5 | 23.0 | 22.6 | 22.4 | 22.1 | 22.4 |
| 7100.00 | 18.9 | -35.2 | -4.2 | -8.0 | 2.1 | 1.1 | 17.4 | 18.3 | 2.4 | 23.4 | 23.4 | 22.9 | 22.6 | 22.4 | 22.1 | 22.4 |
| 7200.00 | 18.5 | -35.8 | -3.9 | -7.5 | 2.2 | 1.1 | 17.0 | 17.8 | 2.4 | 22.9 | 22.9 | 22.6 | 22.3 | 22.0 | 21.8 | 22.3 |
| 7300.00 | 17.9 | -37.4 | -3.6 | -7.1 | 2.6 | 1.1 | 16.7 | 17.4 | 2.4 | 22.3 | 23.3 | 21.9 | 21.5 | 21.2 | 21.3 | 22.0 |
| 7400.00 | 17.2 | -38.3 | -3.6 | -6.9 | 3.0 | 1.1 | 16.3 | 17.0 | 2.5 | 23.0 | 23.0 | 22.4 | 22.1 | 21.7 | 21.7 | 22.3 |
| 7500.00 | 16.6 | -39.8 | -3.4 | -6.6 | 3.6 | 1.1 | 15.8 | 16.5 | 2.5 | 21.6 | 22.2 | 21.1 | 20.8 | 20.5 | 20.9 | 21.5 |
| 7600.00 | 15.8 | -41.9 | -3.4 | -6.3 | 4.8 | 1.1 | 15.3 | 16.0 | 2.6 | 21.4 | 21.7 | 20.7 | 20.3 | 20.2 | 20.7 | 21.0 |
| 7700.00 | 15.1 | -42.7 | -3.5 | -6.2 | 5.6 | 1.1 | 14.8 | 15.4 | 2.6 | 20.7 | 21.2 | 20.0 | 19.6 | 19.6 | 20.3 | 20.1 |
| 7800.00 | 14.2 | -45.7 | -3.4 | -5.9 | 8.2 | 1.1 | 13.9 | 14.5 | 2.6 | 21.0 | 20.7 | 20.4 | 20.0 | 19.9 | 20.5 | 20.4 |
| 7900.00 | 12.8 | -46.0 | -3.7 | -5.6 | 10.1 | 1.0 | 12.9 | 13.5 | 2.8 | 19.0 | 19.1 | 18.1 | 18.0 | 18.6 | 18.3 | 13.5 |
| 8000.00 | 11.7 | -47.0 | -3.7 | -5.5 | 12.5 | 1.0 | 11.7 | 12.3 | 2.8 | 18.7 | 17.8 | 17.7 | 17.7 | 18.3 | 17.5 | 12.4 |

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 75 mA, $I_{EN}$ = 2.15 mA @ Temperature = + 85°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 40.1 | 40.1 | 40.0 | 39.9 | 39.7 | 39.4 | 39.2 |
| 1000.0 | 39.3 | 39.3 | 39.2 | 39.0 | 38.8 | 38.6 | 38.2 |
| 2000.0 | 38.6 | 38.3 | 38.1 | 38.0 | 37.7 | 37.4 | 37.0 |
| 4000.0 | 44.3 | 44.2 | 43.6 | 43.3 | 43.0 | 42.8 | 42.6 |
| 6000.0 | 33.3 | 33.1 | 32.9 | 32.6 | 32.2 | 31.7 | 31.5 |
| 8000.0 | 37.5 | 37.1 | 36.7 | 36.7 | 37.4 | 39.2 | 41.8 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0V, $I_{DD}$ = 80 mA, $I_{EN}$ = 2.13 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 20.9 | -29.8 | -8.9 | -8.3 | 1.4 | 0.8 | 17.7 | 21.5 | 2.0 | 26.8 | 26.7 | 26.7 | 26.7 | 26.5 | 26.3 | 25.9 |
| 5600.00 | 21.1 | -29.8 | -8.7 | -8.4 | 1.4 | 0.8 | 17.3 | 21.2 | 2.0 | 26.0 | 25.8 | 25.5 | 25.3 | 25.1 | 24.8 | 24.4 |
| 5700.00 | 21.0 | -29.8 | -9.0 | -8.6 | 1.4 | 0.8 | 17.1 | 21.0 | 2.0 | 25.9 | 25.3 | 25.8 | 25.6 | 25.4 | 25.1 | 24.5 |
| 5800.00 | 21.2 | -29.9 | -8.8 | -8.6 | 1.4 | 0.8 | 17.1 | 20.7 | 2.0 | 25.9 | 26.1 | 25.7 | 25.5 | 25.4 | 25.1 | 24.6 |
| 5900.00 | 21.2 | -30.0 | -9.0 | -8.9 | 1.4 | 0.8 | 17.1 | 20.3 | 2.0 | 25.2 | 25.9 | 25.4 | 25.2 | 25.0 | 24.7 | 24.1 |
| 6000.00 | 21.3 | -30.0 | -8.7 | -8.9 | 1.4 | 0.8 | 17.1 | 19.8 | 2.0 | 24.3 | 24.6 | 24.2 | 24.0 | 23.6 | 23.2 | 22.9 |
| 6100.00 | 21.3 | -30.0 | -9.0 | -9.2 | 1.4 | 0.8 | 17.7 | 19.9 | 2.0 | 25.4 | 25.6 | 25.1 | 24.9 | 24.8 | 24.5 | 24.2 |
| 6200.00 | 21.4 | -30.2 | -8.6 | -9.2 | 1.4 | 0.8 | 18.0 | 19.9 | 2.0 | 24.7 | 25.2 | 24.6 | 24.5 | 24.3 | 24.1 | 23.9 |
| 6300.00 | 21.4 | -30.2 | -8.9 | -9.5 | 1.5 | 0.8 | 18.3 | 20.0 | 2.0 | 25.6 | 25.6 | 25.5 | 25.6 | 25.5 | 25.4 | 25.3 |
| 6400.00 | 21.5 | -30.4 | -8.6 | -9.4 | 1.5 | 0.8 | 18.5 | 20.1 | 2.0 | 25.4 | 25.4 | 25.5 | 25.4 | 25.4 | 25.3 | 25.2 |
| 6500.00 | 21.4 | -30.5 | -8.8 | -9.9 | 1.5 | 0.8 | 18.5 | 20.0 | 2.0 | 25.9 | 25.7 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| 6600.00 | 21.5 | -30.8 | -8.6 | -9.9 | 1.5 | 0.9 | 18.8 | 20.1 | 2.0 | 25.6 | 25.9 | 25.7 | 25.6 | 25.7 | 25.6 | 25.6 |
| 6700.00 | 21.5 | -30.8 | -8.9 | -10.3 | 1.5 | 0.9 | 18.7 | 20.1 | 2.1 | 25.4 | 25.6 | 25.6 | 25.5 | 25.6 | 25.6 | 25.6 |
| 6800.00 | 21.5 | -31.0 | -8.6 | -10.4 | 1.6 | 0.9 | 18.9 | 20.1 | 2.1 | 25.7 | 26.2 | 25.9 | 25.9 | 25.9 | 25.9 | 26.0 |
| 6900.00 | 21.5 | -31.1 | -8.9 | -10.9 | 1.6 | 0.9 | 19.0 | 20.2 | 2.1 | 25.8 | 25.9 | 26.1 | 26.1 | 26.1 | 26.2 | 26.4 |
| 7000.00 | 21.5 | -31.5 | -8.7 | -11.0 | 1.6 | 0.9 | 19.0 | 20.2 | 2.2 | 25.9 | 25.9 | 25.7 | 25.7 | 25.7 | 25.8 | 26.0 |
| 7100.00 | 21.4 | -31.6 | -9.0 | -11.6 | 1.7 | 0.9 | 19.0 | 20.1 | 2.2 | 26.5 | 26.3 | 26.1 | 26.0 | 26.0 | 26.2 | 26.3 |
| 7200.00 | 21.4 | -32.0 | -8.8 | -11.7 | 1.7 | 0.9 | 19.1 | 20.2 | 2.2 | 26.1 | 25.9 | 26.0 | 26.0 | 26.1 | 26.2 | 26.4 |
| 7300.00 | 21.3 | -32.3 | -9.1 | -12.5 | 1.8 | 1.0 | 19.0 | 20.1 | 2.3 | 25.8 | 25.5 | 25.5 | 25.6 | 25.6 | 25.9 | 26.1 |
| 7400.00 | 21.2 | -32.7 | -8.8 | -12.7 | 1.9 | 1.0 | 19.1 | 20.1 | 2.3 | 25.8 | 25.2 | 25.6 | 25.6 | 25.7 | 25.9 | 26.2 |
| 7500.00 | 21.0 | -32.9 | -9.0 | -13.7 | 2.0 | 1.0 | 18.7 | 19.8 | 2.4 | 25.8 | 26.1 | 25.6 | 25.7 | 25.9 | 26.1 | 26.5 |
| 7600.00 | 20.8 | -33.8 | -8.5 | -13.9 | 2.2 | 1.0 | 18.8 | 19.7 | 2.5 | 26.1 | 25.3 | 25.9 | 25.8 | 25.9 | 26.0 | 26.3 |
| 7700.00 | 20.5 | -33.9 | -8.6 | -15.1 | 2.3 | 1.0 | 18.8 | 19.7 | 2.6 | 24.9 | 24.5 | 24.5 | 24.7 | 24.7 | 25.0 | 25.2 |
| 7800.00 | 20.1 | -35.0 | -7.9 | -15.1 | 2.6 | 1.1 | 18.5 | 19.4 | 2.7 | 25.5 | 25.9 | 25.4 | 25.5 | 25.7 | 25.9 | 26.3 |
| 7900.00 | 19.7 | -35.2 | -7.9 | -16.1 | 2.8 | 1.1 | 18.3 | 19.2 | 2.8 | 25.4 | 25.7 | 25.6 | 25.5 | 25.7 | 26.0 | 26.3 |
| 8000.00 | 19.1 | -36.7 | -6.9 | -15.2 | 3.3 | 1.2 | 18.0 | 18.8 | 2.9 | 24.6 | 24.5 | 25.0 | 24.9 | 25.2 | 25.6 | 25.9 |
| 8100.00 | 18.6 | -36.9 | -6.7 | -15.1 | 3.5 | 1.2 | 17.9 | 18.7 | 3.0 | 24.8 | 25.0 | 24.9 | 25.0 | 25.2 | 25.5 | 25.8 |
| 8200.00 | 17.7 | -38.6 | -5.7 | -13.3 | 4.2 | 1.2 | 17.6 | 18.3 | 3.2 | 24.2 | | 24.4 | 24.4 | 24.6 | 25.0 | 24.8 |
| 8300.00 | 17.0 | -39.0 | -5.4 | -12.6 | 4.6 | 1.2 | 17.3 | 18.0 | 3.4 | 24.8 | 25.0 | 24.6 | 24.8 | 25.0 | 25.3 | 25.2 |
| 8400.00 | 15.7 | -40.6 | -4.6 | -10.7 | 5.6 | 1.2 | 16.9 | 17.6 | 3.6 | 25.3 | 25.5 | 25.1 | 25.1 | 25.4 | 25.6 | 25.4 |
| 8500.00 | 15.0 | -41.6 | -4.1 | -9.8 | 6.3 | 1.3 | 16.3 | 17.0 | 3.8 | 23.8 | 23.9 | 24.1 | 24.2 | 24.4 | 24.3 | 23.0 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 36.6 | 36.5 | 36.3 | 36.1 | 35.6 | 35.4 | 35.0 |
| 6000.0 | 34.3 | 34.2 | 33.9 | 33.6 | 33.2 | 32.8 | 32.4 |
| 7000.0 | 44.3 | 44.1 | 43.9 | 43.6 | 43.3 | 43.0 | 42.9 |
| 8000.0 | 52.4 | 52.2 | 51.9 | 51.6 | 51.2 | 50.9 | 50.9 |
| 8500.0 | 60.3 | 60.1 | 59.8 | 59.4 | 59.0 | 58.9 | 59.4 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.7 | -3.9 | -4.0 | -9.1 | 1.1 | 0.9 | 3.5 |
| 300.00 | -2.4 | -2.4 | -6.7 | -11.9 | 1.0 | 0.7 | 2.3 |
| 400.00 | -1.8 | -1.8 | -9.3 | -14.0 | 1.0 | 0.6 | 2.1 |
| 500.00 | -1.4 | -1.5 | -12.0 | -15.7 | 1.0 | 0.5 | 2.1 |
| 600.00 | -1.3 | -1.4 | -14.9 | -16.9 | 1.0 | 0.5 | 1.4 |
| 700.00 | -1.2 | -1.3 | -18.1 | -17.8 | 1.0 | 0.4 | 1.3 |
| 800.00 | -1.2 | -1.3 | -22.1 | -18.0 | 1.0 | 0.4 | 1.6 |
| 900.00 | -1.2 | -1.3 | -27.2 | -17.7 | 1.0 | 0.4 | 1.5 |
| 1000.00 | -1.1 | -1.2 | -30.9 | -17.4 | 1.0 | 0.4 | 1.3 |
| 1100.00 | -1.1 | -1.2 | -26.7 | -17.0 | 1.0 | 0.4 | 1.5 |
| 1200.00 | -1.2 | -1.3 | -23.0 | -16.8 | 1.0 | 0.4 | 1.5 |
| 1300.00 | -1.2 | -1.3 | -20.6 | -16.3 | 1.0 | 0.4 | 1.3 |
| 1400.00 | -1.2 | -1.3 | -18.8 | -15.9 | 1.0 | 0.4 | 1.2 |
| 1500.00 | -1.2 | -1.4 | -17.4 | -15.6 | 1.0 | 0.4 | 1.6 |
| 1600.00 | -1.3 | -1.4 | -16.3 | -15.4 | 1.0 | 0.5 | 1.6 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.3 | 1.0 | 0.5 | 1.5 |
| 1800.00 | -1.3 | -1.5 | -14.7 | -15.3 | 1.0 | 0.5 | 1.5 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 1.5 |
| 2000.00 | -1.4 | -1.6 | -13.8 | -15.0 | 1.0 | 0.5 | 1.9 |
| 2100.00 | -1.4 | -1.7 | -13.5 | -15.2 | 1.0 | 0.5 | 1.7 |
| 2200.00 | -1.5 | -1.7 | -13.3 | -15.4 | 1.0 | 0.5 | 1.7 |
| 2300.00 | -1.5 | -1.7 | -13.1 | -15.6 | 1.0 | 0.5 | 1.9 |
| 2400.00 | -1.5 | -1.8 | -13.1 | -15.9 | 1.0 | 0.6 | 1.9 |
| 2500.00 | -1.5 | -1.8 | -13.0 | -16.3 | 1.0 | 0.6 | 2.0 |
| 2600.00 | -1.6 | -1.9 | -13.1 | -16.9 | 1.1 | 0.6 | 2.0 |
| 2700.00 | -1.6 | -2.0 | -13.2 | -17.6 | 1.1 | 0.6 | 2.1 |
| 2800.00 | -1.6 | -2.0 | -13.3 | -18.3 | 1.1 | 0.6 | 2.2 |
| 2900.00 | -1.6 | -2.0 | -13.5 | -19.1 | 1.1 | 0.6 | 2.2 |
| 3000.00 | -1.6 | -2.0 | -13.6 | -20.2 | 1.1 | 0.6 | 2.3 |
| 3100.00 | -1.6 | -2.0 | -13.7 | -21.7 | 1.1 | 0.6 | 2.5 |
| 3200.00 | -1.7 | -2.0 | -13.8 | -23.5 | 1.1 | 0.7 | 2.2 |
| 3300.00 | -1.7 | -2.0 | -13.9 | -25.1 | 1.1 | 0.7 | 2.3 |
| 3400.00 | -1.7 | -2.0 | -14.0 | -26.9 | 1.1 | 0.7 | 2.2 |
| 3500.00 | -1.7 | -2.0 | -14.0 | -28.0 | 1.1 | 0.7 | 2.2 |
| 3600.00 | -1.7 | -2.0 | -13.9 | -26.3 | 1.1 | 0.7 | 1.9 |
| 3700.00 | -1.7 | -2.1 | -13.8 | -24.1 | 1.1 | 0.7 | 2.1 |
| 3800.00 | -1.7 | -2.1 | -13.6 | -22.0 | 1.1 | 0.7 | 2.3 |
| 3900.00 | -1.7 | -2.1 | -13.4 | -20.3 | 1.1 | 0.7 | 2.1 |
| 4000.00 | -1.8 | -2.1 | -13.2 | -18.8 | 1.1 | 0.6 | 1.9 |
| 4100.00 | -1.8 | -2.1 | -12.9 | -17.4 | 1.1 | 0.6 | 2.3 |
| 4200.00 | -1.8 | -2.1 | -12.5 | -16.3 | 1.1 | 0.6 | 2.0 |
| 4300.00 | -1.8 | -2.2 | -12.3 | -15.5 | 1.1 | 0.6 | 2.0 |
| 4400.00 | -1.8 | -2.2 | -12.1 | -14.8 | 1.1 | 0.6 | 1.8 |
| 4500.00 | -1.9 | -2.2 | -11.8 | -14.1 | 1.1 | 0.6 | 2.1 |
| 4600.00 | -1.9 | -2.3 | -11.6 | -13.5 | 1.1 | 0.6 | 2.1 |
| 4700.00 | -1.9 | -2.3 | -11.4 | -13.0 | 1.1 | 0.6 | 2.3 |
| 4800.00 | -1.9 | -2.3 | -11.3 | -12.8 | 1.1 | 0.6 | 2.0 |
| 4900.00 | -1.9 | -2.4 | -11.2 | -12.5 | 1.1 | 0.6 | 1.5 |
| 5000.00 | -1.9 | -2.4 | -11.1 | -12.1 | 1.1 | 0.6 | 1.4 |
| 5100.00 | -1.9 | -2.4 | -11.0 | -11.9 | 1.1 | 0.6 | 1.9 |
| 5200.00 | -1.9 | -2.4 | -11.0 | -11.8 | 1.1 | 0.6 | 2.0 |
| 5300.00 | -1.9 | -2.4 | -11.0 | -11.7 | 1.1 | 0.6 | 1.8 |
| 5400.00 | -1.9 | -2.5 | -11.0 | -11.6 | 1.1 | 0.6 | 2.0 |
| 5500.00 | -1.9 | -2.5 | -11.0 | -11.5 | 1.1 | 0.6 | 1.9 |
| 5600.00 | -1.9 | -2.4 | -11.2 | -11.6 | 1.1 | 0.6 | 1.8 |
| 5700.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 1.7 |
| 5800.00 | -1.8 | -2.4 | -11.5 | -11.6 | 1.1 | 0.6 | 1.6 |
| 5900.00 | -1.8 | -2.4 | -11.8 | -11.8 | 1.1 | 0.6 | 1.5 |
| 6000.00 | -1.8 | -2.4 | -11.9 | -11.8 | 1.1 | 0.6 | 1.3 |
| 6100.00 | -1.7 | -2.4 | -12.3 | -11.9 | 1.1 | 0.6 | 1.9 |
| 6200.00 | -1.7 | -2.4 | -12.7 | -12.2 | 1.1 | 0.6 | 1.4 |
| 6300.00 | -1.7 | -2.4 | -12.9 | -12.3 | 1.1 | 0.6 | 1.9 |
| 6400.00 | -1.7 | -2.4 | -13.3 | -12.6 | 1.1 | 0.6 | 1.8 |
| 6500.00 | -1.7 | -2.4 | -13.6 | -12.7 | 1.1 | 0.6 | 1.3 |
| 6600.00 | -1.6 | -2.3 | -13.8 | -12.7 | 1.1 | 0.6 | 1.9 |
| 6700.00 | -1.6 | -2.3 | -14.3 | -13.1 | 1.1 | 0.6 | 1.8 |
| 6800.00 | -1.7 | -2.4 | -14.6 | -13.2 | 1.1 | 0.6 | 2.2 |
| 6900.00 | -1.6 | -2.3 | -14.6 | -13.2 | 1.1 | 0.6 | 1.6 |
| 7000.00 | -1.6 | -2.4 | -14.9 | -13.4 | 1.1 | 0.6 | 1.5 |
| 7100.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 1.6 |
| 7200.00 | -1.7 | -2.4 | -14.7 | -13.3 | 1.1 | 0.6 | 1.8 |
| 7300.00 | -1.7 | -2.5 | -14.5 | -13.2 | 1.1 | 0.6 | 1.8 |
| 7400.00 | -1.8 | -2.6 | -13.9 | -12.8 | 1.1 | 0.6 | 1.7 |
| 7500.00 | -1.9 | -2.6 | -13.4 | -12.6 | 1.1 | 0.6 | 1.7 |
| 7600.00 | -2.0 | -2.7 | -13.0 | -12.3 | 1.1 | 0.6 | 1.7 |
| 7700.00 | -2.1 | -2.8 | -12.2 | -11.6 | 1.2 | 0.7 | 1.5 |
| 7800.00 | -2.2 | -2.9 | -11.7 | -11.2 | 1.2 | 0.7 | 1.8 |
| 7900.00 | -2.4 | -3.1 | -11.1 | -10.6 | 1.2 | 0.7 | 1.8 |
| 8000.00 | -2.4 | -3.1 | -10.1 | -9.9 | 1.2 | 0.7 | 2.3 |

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 31.8 | 30.4 | 28.2 | 25.0 | 20.1 | 15.6 | 14.9 |
| 1000.0 | 33.8 | 32.5 | 30.3 | 26.9 | 21.2 | 15.0 | 15.8 |
| 2000.0 | 35.7 | 35.0 | 33.5 | 31.1 | 27.3 | 20.3 | 16.6 |
| 4000.0 | 36.8 | 36.4 | 35.5 | 34.0 | 31.5 | 27.5 | 21.4 |
| 6000.0 | 37.3 | 37.2 | 36.1 | 34.2 | 31.0 | 25.8 | 18.1 |
| 8000.0 | 38.8 | 38.2 | 36.9 | 34.8 | 31.8 | 26.6 | 18.2 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 71.9 | 71.2 | 69.8 | 67.1 | 59.9 | 47.8 | 46.3 |
| 1000.0 | 71.3 | 71.4 | 71.3 | 70.0 | 61.9 | 52.0 | 52.4 |
| 2000.0 | 71.6 | 71.3 | 71.1 | 70.4 | 68.4 | 60.4 | 52.5 |
| 4000.0 | 72.4 | 72.5 | 72.5 | 72.8 | 73.2 | 73.2 | 58.5 |
| 6000.0 | 72.7 | 72.5 | 72.1 | 71.8 | 70.9 | 67.3 | 57.9 |
| 8000.0 | 83.6 | 83.5 | 83.4 | 83.1 | 82.4 | 80.2 | 70.5 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 12.2 | 9.4 |
| 1000.0 | 11.8 | 9.7 |
| 2000.0 | 13.7 | 11.2 |
| 4000.0 | 15.7 | 13.2 |
| 6000.0 | 16.3 | 13.3 |
| 8000.0 | 16.2 | 12.7 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.4 | -20.0 | -17.4 | 1.1 | 0.7 | 3.1 |
| 5600.00 | -1.7 | -2.4 | -20.5 | -17.2 | 1.1 | 0.7 | 2.7 |
| 5700.00 | -1.7 | -2.4 | -20.4 | -17.0 | 1.1 | 0.7 | 2.7 |
| 5800.00 | -1.7 | -2.4 | -19.9 | -16.4 | 1.1 | 0.7 | 2.7 |
| 5900.00 | -1.7 | -2.4 | -19.0 | -15.8 | 1.1 | 0.7 | 2.6 |
| 6000.00 | -1.7 | -2.5 | -18.2 | -15.2 | 1.1 | 0.7 | 2.6 |
| 6100.00 | -1.7 | -2.5 | -17.1 | -14.5 | 1.1 | 0.7 | 2.7 |
| 6200.00 | -1.7 | -2.5 | -16.3 | -13.9 | 1.1 | 0.7 | 3.0 |
| 6300.00 | -1.7 | -2.6 | -15.2 | -13.2 | 1.1 | 0.7 | 2.8 |
| 6400.00 | -1.8 | -2.6 | -14.5 | -12.7 | 1.1 | 0.7 | 2.9 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.2 | 1.1 | 0.7 | 2.9 |
| 6600.00 | -1.8 | -2.7 | -13.0 | -11.6 | 1.1 | 0.7 | 2.6 |
| 6700.00 | -1.9 | -2.8 | -12.3 | -11.1 | 1.1 | 0.7 | 3.0 |
| 6800.00 | -2.0 | -2.8 | -11.7 | -10.7 | 1.1 | 0.7 | 2.8 |
| 6900.00 | -2.0 | -2.9 | -11.0 | -10.1 | 1.1 | 0.7 | 3.2 |
| 7000.00 | -2.1 | -3.0 | -10.5 | -9.7 | 1.1 | 0.7 | 3.0 |
| 7100.00 | -2.2 | -3.1 | -9.8 | -9.2 | 1.1 | 0.6 | 3.0 |
| 7200.00 | -2.3 | -3.2 | -9.3 | -8.8 | 1.1 | 0.6 | 3.2 |
| 7300.00 | -2.4 | -3.3 | -8.8 | -8.4 | 1.1 | 0.6 | 3.2 |
| 7400.00 | -2.6 | -3.4 | -8.3 | -8.0 | 1.1 | 0.6 | 3.3 |
| 7500.00 | -2.7 | -3.6 | -7.8 | -7.6 | 1.2 | 0.6 | 3.3 |
| 7600.00 | -2.9 | -3.7 | -7.4 | -7.2 | 1.2 | 0.6 | 3.2 |
| 7700.00 | -3.1 | -3.9 | -6.9 | -6.8 | 1.2 | 0.6 | 3.3 |
| 7800.00 | -3.2 | -4.1 | -6.5 | -6.5 | 1.2 | 0.6 | 3.3 |
| 7900.00 | -3.4 | -4.3 | -6.1 | -6.1 | 1.2 | 0.6 | 3.8 |
| 8000.00 | -3.6 | -4.4 | -5.8 | -5.8 | 1.2 | 0.6 | 3.8 |
| 8100.00 | -3.8 | -4.6 | -5.3 | -5.4 | 1.2 | 0.6 | 4.3 |
| 8200.00 | -4.1 | -4.8 | -5.1 | -5.3 | 1.2 | 0.6 | 4.1 |
| 8300.00 | -4.3 | -5.0 | -4.7 | -4.9 | 1.2 | 0.6 | 3.9 |
| 8400.00 | -4.5 | -5.2 | -4.5 | -4.7 | 1.2 | 0.6 | 3.8 |
| 8500.00 | -4.7 | -5.4 | -4.2 | -4.4 | 1.2 | 0.6 | 3.6 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 15.4 | 12.2 |
| 6000.0 | 15.8 | 12.9 |
| 7000.0 | 17.4 | 13.8 |
| 8000.0 | 18.0 | 12.7 |
| 8500.0 | 16.9 | 11.4 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 69.8 | 69.8 | 69.6 | 69.4 | 68.5 | 65.2 | 59.6 | 38.8 | 38.2 | 37.6 | 36.9 | 34.5 | 30.9 | 24.9 |
| 6000.0 | 75.9 | 75.7 | 75.5 | 75.2 | 74.9 | 73.8 | 68.8 | 38.7 | 39.0 | 38.4 | 36.4 | 33.5 | 28.7 | 19.3 |
| 7000.0 | 86.5 | 86.4 | 86.3 | 86.0 | 85.4 | 83.8 | 78.0 | 39.5 | 39.0 | 38.7 | 35.6 | 32.9 | 29.0 | 23.0 |
| 8000.0 | 83.8 | 83.8 | 83.7 | 83.5 | 83.1 | 81.9 | 76.2 | 38.6 | 38.9 | 38.0 | 37.6 | 35.6 | 32.3 | 26.5 |
| 8500.0 | 92.2 | 92.3 | 92.3 | 92.3 | 92.1 | 89.9 | 94.4 | 38.7 | 38.0 | 36.3 | 33.5 | 29.1 | 20.7 | 16.0 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 81 mA, $I_{EN}$ = 2.26 mA @ Temperature = + 85°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.7 | -32.9 | -1.9 | -4.7 | 1.5 | 1.0 | 19.5 | 20.9 | 5.3 | 29.5 | 31.6 | 31.7 | 31.4 | 31.2 | 31.1 | 30.7 |
| 300.00 | 19.5 | -28.1 | -5.8 | -8.9 | 1.2 | 0.8 | 19.9 | 21.2 | 2.9 | 30.6 | 32.2 | 32.4 | 32.3 | 32.2 | 32.0 | 31.8 |
| 400.00 | 20.9 | -26.6 | -11.7 | -15.2 | 1.2 | 0.7 | 20.4 | 21.6 | 2.2 | 30.9 | 32.6 | 32.6 | 33.5 | 33.3 | 33.3 | 33.0 |
| 500.00 | 21.3 | -26.2 | -17.8 | -19.4 | 1.2 | 0.7 | 20.8 | 21.7 | 1.9 | 31.1 | 32.1 | 32.5 | 33.9 | 33.5 | 33.2 | 33.1 |
| 600.00 | 21.4 | -26.2 | -19.5 | -18.8 | 1.1 | 0.7 | 21.1 | 21.9 | 1.7 | 30.9 | 34.6 | 34.6 | 34.5 | 34.4 | 34.2 | 34.0 |
| 700.00 | 21.4 | -26.1 | -18.1 | -17.7 | 1.1 | 0.6 | 21.2 | 22.1 | 1.6 | 32.4 | 34.5 | 33.9 | 34.4 | 33.6 | 33.7 | 33.4 |
| 800.00 | 21.4 | -26.1 | -17.0 | -17.2 | 1.1 | 0.7 | 21.4 | 22.2 | 1.6 | 34.4 | 33.3 | 34.0 | 33.5 | 33.3 | 33.1 | 33.0 |
| 900.00 | 21.4 | -26.2 | -16.4 | -17.1 | 1.1 | 0.7 | 21.5 | 22.3 | 1.6 | 33.4 | 34.9 | 33.7 | 33.5 | 33.5 | 33.5 | 33.2 |
| 1000.00 | 21.4 | -26.2 | -16.0 | -17.4 | 1.1 | 0.7 | 21.5 | 22.3 | 1.6 | 32.9 | 34.1 | 33.8 | 34.0 | 33.9 | 34.0 | 33.7 |
| 1100.00 | 21.4 | -26.3 | -15.9 | -17.8 | 1.1 | 0.7 | 21.4 | 22.3 | 1.6 | 33.5 | 34.0 | 33.5 | 33.5 | 33.6 | 33.5 | 33.2 |
| 1200.00 | 21.4 | -26.3 | -15.9 | -18.6 | 1.1 | 0.7 | 21.5 | 22.5 | 1.6 | 32.7 | 33.4 | 33.6 | 33.2 | 33.1 | 33.1 | 32.9 |
| 1300.00 | 21.4 | -26.3 | -15.9 | -19.6 | 1.2 | 0.7 | 21.6 | 22.5 | 1.5 | 32.9 | 32.9 | 32.5 | 32.5 | 32.8 | 32.5 | 32.4 |
| 1400.00 | 21.5 | -26.4 | -16.1 | -20.9 | 1.2 | 0.7 | 21.5 | 22.4 | 1.6 | 31.5 | 31.7 | 33.5 | 33.3 | 33.2 | 33.1 | 32.9 |
| 1500.00 | 21.4 | -26.4 | -16.0 | -22.7 | 1.2 | 0.7 | 21.4 | 22.5 | 1.6 | 30.9 | 31.7 | 31.6 | 32.0 | 31.8 | 31.7 | 31.5 |
| 1600.00 | 21.4 | -26.5 | -15.8 | -24.8 | 1.2 | 0.7 | 21.4 | 22.6 | 1.6 | 31.5 | 32.4 | 32.6 | 32.8 | 32.4 | 32.3 | 32.1 |
| 1700.00 | 21.4 | -26.6 | -15.6 | -26.6 | 1.2 | 0.7 | 21.5 | 22.7 | 1.7 | 31.2 | 33.0 | 32.0 | 31.8 | 31.8 | 31.7 | 31.5 |
| 1800.00 | 21.5 | -26.6 | -15.3 | -28.7 | 1.2 | 0.7 | 21.3 | 22.6 | 1.7 | 32.9 | 32.5 | 32.3 | 31.8 | 31.6 | 31.7 | 31.4 |
| 1900.00 | 21.5 | -26.7 | -14.9 | -28.2 | 1.2 | 0.7 | 21.3 | 22.6 | 1.8 | 31.7 | 31.4 | 30.6 | 30.9 | 30.8 | 30.7 | 30.4 |
| 2000.00 | 21.5 | -26.7 | -14.5 | -25.7 | 1.2 | 0.7 | 21.0 | 22.5 | 1.8 | 32.5 | 32.3 | 31.3 | 31.7 | 31.3 | 31.2 | 30.9 |
| 2100.00 | 21.5 | -26.8 | -13.9 | -23.4 | 1.2 | 0.7 | 21.2 | 22.7 | 1.8 | 31.7 | 30.5 | 31.1 | 31.2 | 31.0 | 30.9 | 30.7 |
| 2200.00 | 21.4 | -26.9 | -13.4 | -21.5 | 1.2 | 0.8 | 21.1 | 22.6 | 1.8 | 31.6 | 31.6 | 31.4 | 31.5 | 31.5 | 31.4 | 31.2 |
| 2300.00 | 21.4 | -27.0 | -12.8 | -19.7 | 1.2 | 0.8 | 21.0 | 22.7 | 1.8 | 31.5 | 31.7 | 31.2 | 31.1 | 30.9 | 30.9 | 30.7 |
| 2400.00 | 21.4 | -27.1 | -12.3 | -18.3 | 1.2 | 0.8 | 20.8 | 22.8 | 1.8 | 29.3 | 30.5 | 29.5 | 29.8 | 29.6 | 29.5 | 29.3 |
| 2500.00 | 21.4 | -27.2 | -11.9 | -17.2 | 1.2 | 0.8 | 20.6 | 22.8 | 1.9 | 29.5 | 30.0 | 29.7 | 29.8 | 29.7 | 29.5 | 29.2 |
| 2600.00 | 21.3 | -27.4 | -11.4 | -16.2 | 1.2 | 0.8 | 20.4 | 22.7 | 1.9 | 29.6 | 29.8 | 29.9 | 29.5 | 29.4 | 29.3 | 28.9 |
| 2700.00 | 21.3 | -27.4 | -11.0 | -15.5 | 1.2 | 0.8 | 20.1 | 22.4 | 2.0 | 30.3 | 30.0 | 30.0 | 29.9 | 29.8 | 29.7 | 29.4 |
| 2800.00 | 21.3 | -27.6 | -10.7 | -14.8 | 1.2 | 0.8 | 20.0 | 22.3 | 2.0 | 29.5 | 29.6 | 29.5 | 29.4 | 29.4 | 29.2 | 28.9 |
| 2900.00 | 21.2 | -27.7 | -10.3 | -14.1 | 1.2 | 0.8 | 19.7 | 22.1 | 2.0 | 28.8 | | 28.7 | 28.5 | 28.4 | 28.2 | 27.8 |
| 3000.00 | 21.2 | -27.7 | -10.0 | -13.6 | 1.2 | 0.8 | 19.9 | 22.3 | 2.0 | 28.6 | 29.4 | 28.5 | 28.5 | 28.4 | 28.2 | 27.9 |
| 3100.00 | 21.2 | -27.8 | -9.7 | -13.2 | 1.2 | 0.8 | 19.8 | 22.5 | 2.0 | 28.6 | 28.3 | 28.2 | 28.0 | 27.9 | 27.7 | 27.4 |
| 3200.00 | 21.2 | -27.9 | -9.5 | -12.9 | 1.3 | 0.8 | 19.8 | 22.5 | 2.1 | 29.0 | 28.9 | 28.7 | 28.5 | 28.3 | 28.2 | 27.8 |
| 3300.00 | 21.2 | -27.9 | -9.4 | -12.7 | 1.2 | 0.8 | 19.6 | 22.3 | 2.0 | 28.6 | 28.7 | 28.5 | 28.4 | 28.2 | 28.0 | 27.7 |
| 3400.00 | 21.2 | -28.0 | -9.2 | -12.5 | 1.2 | 0.8 | 19.5 | 22.1 | 2.0 | 29.9 | 28.4 | 29.1 | 28.8 | 28.6 | 28.5 | 28.2 |
| 3500.00 | 21.2 | -28.0 | -9.2 | -12.5 | 1.3 | 0.8 | 19.6 | 22.3 | 2.0 | 28.9 | 28.6 | 28.1 | 28.0 | 27.9 | 27.7 | 27.4 |
| 3600.00 | 21.2 | -28.0 | -9.2 | -12.7 | 1.2 | 0.8 | 19.6 | 22.3 | 2.0 | 27.6 | 28.0 | 28.0 | 27.9 | 27.8 | 27.6 | 27.3 |
| 3700.00 | 21.2 | -28.1 | -9.2 | -12.8 | 1.3 | 0.8 | 19.8 | 22.5 | 2.0 | 28.5 | 28.7 | 29.3 | 28.9 | 29.0 | 28.8 | 28.6 |
| 3800.00 | 21.3 | -28.1 | -9.4 | -13.0 | 1.3 | 0.8 | 19.9 | 22.5 | 2.0 | 27.1 | 28.8 | 28.0 | 28.0 | 27.9 | 27.7 | 27.5 |
| 3900.00 | 21.3 | -28.1 | -9.5 | -13.3 | 1.3 | 0.8 | 20.0 | 22.6 | 1.9 | 27.5 | 28.7 | 28.2 | 28.3 | 28.2 | 28.0 | 27.7 |
| 4000.00 | 21.4 | -28.2 | -9.7 | -13.6 | 1.3 | 0.8 | 19.9 | 22.7 | 2.0 | 27.9 | 28.1 | 28.6 | 28.6 | 28.5 | 28.4 | 28.2 |
| 4100.00 | 21.4 | -28.2 | -10.0 | -14.1 | 1.3 | 0.8 | 20.0 | 22.8 | 1.9 | 28.1 | 28.3 | 28.2 | 28.1 | 28.0 | 28.0 | 27.8 |
| 4200.00 | 21.5 | -28.2 | -10.3 | -14.7 | 1.3 | 0.8 | 20.1 | 22.7 | 1.8 | 28.4 | 28.4 | 28.2 | 28.2 | 28.0 | 28.0 | 27.7 |
| 4300.00 | 21.5 | -28.3 | -10.6 | -15.1 | 1.3 | 0.8 | 19.9 | 22.7 | 1.9 | 27.8 | 28.0 | 28.3 | 28.4 | 28.3 | 28.2 | 27.9 |
| 4400.00 | 21.6 | -28.4 | -11.1 | -15.7 | 1.3 | 0.8 | 19.8 | 22.7 | 1.8 | 28.5 | 27.9 | 28.0 | 28.0 | 27.9 | 27.8 | 27.5 |
| 4500.00 | 21.7 | -28.3 | -11.4 | -16.4 | 1.3 | 0.8 | 19.6 | 22.6 | 1.8 | 27.8 | 27.6 | 27.7 | 28.0 | 27.8 | 27.7 | 27.4 |
| 4600.00 | 21.7 | -28.4 | -12.0 | -17.1 | 1.3 | 0.8 | 19.3 | 22.5 | 1.9 | 27.3 | 27.7 | 27.8 | 27.8 | 27.6 | 27.5 | 27.1 |
| 4700.00 | 21.7 | -28.4 | -12.5 | -17.9 | 1.3 | 0.8 | 19.4 | 22.5 | 1.9 | 27.5 | 27.3 | 27.7 | 27.5 | 27.4 | 27.2 | 26.9 |
| 4800.00 | 21.8 | -28.5 | -12.9 | -18.3 | 1.3 | 0.8 | 19.7 | 22.4 | 1.9 | 27.9 | 28.0 | 27.9 | 28.0 | 27.9 | 27.8 | 27.5 |
| 4900.00 | 21.8 | -28.6 | -13.6 | -19.0 | 1.3 | 0.8 | 19.5 | 22.4 | 1.9 | 27.3 | 27.7 | 27.3 | 27.3 | 27.2 | 27.1 | 26.7 |
| 5000.00 | 21.9 | -28.6 | -14.0 | -20.0 | 1.3 | 0.8 | 19.6 | 22.3 | 1.9 | 26.9 | 27.2 | 26.8 | 27.0 | 26.9 | 26.7 | 26.3 |
| 5100.00 | 22.0 | -28.7 | -14.3 | -20.2 | 1.3 | 0.8 | 20.0 | 22.3 | 1.9 | 26.5 | 28.1 | 26.9 | 26.9 | 26.9 | 26.8 | 26.5 |
| 5200.00 | 21.9 | -28.8 | -15.0 | -20.7 | 1.4 | 0.8 | 20.0 | 22.3 | 1.9 | 26.6 | 27.4 | 27.0 | 27.1 | 27.1 | 27.1 | 26.9 |
| 5300.00 | 22.0 | -28.8 | -14.8 | -20.7 | 1.3 | 0.8 | 19.7 | 22.2 | 1.9 | 26.7 | 27.6 | 27.0 | 26.9 | 26.9 | 26.8 | 26.6 |
| 5400.00 | 22.0 | -29.1 | -14.7 | -20.3 | 1.4 | 0.8 | 19.1 | 22.1 | 1.9 | 27.0 | 27.4 | 26.9 | 26.9 | 26.8 | 26.7 | 26.4 |
| 5500.00 | 22.0 | -28.9 | -14.8 | -20.9 | 1.4 | 0.8 | 18.6 | 21.8 | 1.9 | 26.5 | 27.6 | 26.3 | 26.2 | 26.0 | 25.8 | 25.4 |
| 5600.00 | 22.1 | -29.2 | -13.6 | -19.9 | 1.4 | 0.8 | 18.0 | 21.4 | 1.9 | 26.7 | 26.6 | 26.4 | 26.2 | 26.1 | 25.8 | 25.3 |
| 5700.00 | 21.9 | -29.5 | -13.2 | -19.0 | 1.4 | 0.9 | 17.9 | 21.0 | 1.9 | 25.7 | 26.6 | 25.5 | 25.3 | 25.1 | 24.8 | 24.2 |
| 5800.00 | 22.0 | -29.4 | -12.6 | -19.0 | 1.4 | 0.9 | 18.0 | 20.7 | 2.0 | 25.8 | 25.9 | 25.3 | 25.2 | 25.0 | 24.7 | 24.1 |
| 5900.00 | 21.9 | -29.7 | -11.2 | -17.3 | 1.4 | 0.9 | 18.0 | 20.4 | 2.0 | 26.1 | 25.6 | 25.6 | 25.4 | 25.2 | 24.9 | 24.4 |
| 6000.00 | 21.7 | -29.8 | -11.0 | -16.9 | 1.4 | 0.9 | 18.0 | 19.9 | 1.9 | 25.2 | 25.6 | 25.2 | 25.0 | 24.8 | 24.5 | 23.9 |
| 6100.00 | 21.8 | -30.0 | -9.9 | -16.0 | 1.4 | 0.9 | 18.1 | 19.8 | 2.1 | 25.8 | 25.6 | 25.6 | 25.4 | 25.2 | 24.9 | 24.5 |
| 6200.00 | 21.6 | -30.6 | -8.9 | -14.4 | 1.5 | 0.9 | 18.2 | 19.6 | 2.1 | 25.6 | 25.0 | 25.2 | 25.1 | 24.9 | 24.6 | 24.2 |
| 6300.00 | 21.5 | -30.5 | -8.6 | -14.1 | 1.5 | 1.0 | 18.1 | 19.5 | 2.2 | 24.7 | 25.2 | 24.6 | 24.5 | 24.3 | 24.1 | 23.9 |
| 6400.00 | 21.4 | -31.0 | -7.6 | -12.8 | 1.5 | 1.0 | 18.1 | 19.4 | 2.2 | 25.2 | 25.4 | 25.1 | 25.0 | 24.8 | 24.6 | 24.3 |
| 6500.00 | 21.1 | -31.5 | -7.0 | -11.9 | 1.6 | 1.0 | 18.3 | 19.5 | 2.2 | 24.9 | 24.3 | 24.8 | 24.6 | 24.4 | 24.2 | 23.8 |
| 6600.00 | 21.0 | -31.6 | -6.5 | -11.4 | 1.6 | 1.0 | 18.4 | 19.5 | 2.3 | 24.4 | 24.5 | 24.4 | 24.2 | 24.0 | 23.8 | 23.5 |
| 6700.00 | 20.7 | -32.3 | -5.7 | -10.3 | 1.6 | 1.0 | 18.2 | 19.3 | 2.3 | 24.8 | 24.2 | 24.5 | 24.3 | 24.1 | 23.8 | 23.6 |
| 6800.00 | 20.3 | -33.0 | -5.3 | -9.7 | 1.7 | 1.0 | 18.1 | 19.1 | 2.3 | 24.2 | 25.4 | 24.0 | 23.8 | 23.5 | 23.3 | 23.1 |
| 6900.00 | 20.1 | -33.4 | -4.9 | -9.2 | 1.8 | 1.1 | 18.0 | 19.0 | 2.3 | 23.8 | 23.5 | 23.7 | 23.5 | 23.3 | 23.1 | 23.0 |
| 7000.00 | 19.6 | -34.4 | -4.4 | -8.5 | 1.9 | 1.1 | 17.8 | 18.7 | 2.4 | 23.8 | 24.1 | 23.5 | 23.3 | 23.1 | 22.9 | 22.8 |
| 7100.00 | 19.1 | -35.4 | -4.2 | -8.1 | 2.1 | 1.1 | 17.6 | 18.4 | 2.5 | 24.0 | 23.9 | 23.6 | 23.4 | 23.1 | 22.9 | 22.9 |
| 7200.00 | 18.7 | -36.1 | -3.9 | -7.6 | 2.2 | 1.1 | 17.2 | 18.0 | 2.4 | 23.3 | 23.6 | 23.2 | 23.0 | 22.7 | 22.5 | 22.6 |
| 7300.00 | 18.1 | -37.5 | -3.6 | -7.1 | 2.6 | 1.1 | 16.8 | 17.5 | 2.5 | 23.0 | 23.9 | 22.6 | 22.3 | 22.0 | 21.9 | 22.2 |
| 7400.00 | 17.4 | -38.7 | -3.6 | -6.9 | 3.1 | 1.1 | 16.4 | 17.1 | 2.5 | 23.2 | 23.7 | 23.1 | 22.8 | 22.5 | 22.4 | 22.6 |
| 7500.00 | 16.8 | -40.2 | -3.4 | -6.6 | 3.7 | 1.1 | 16.0 | 16.6 | 2.5 | 22.4 | 22.8 | 21.9 | 21.6 | 21.3 | 21.3 | 21.7 |
| 7600.00 | 15.9 | -42.0 | -3.4 | -6.4 | 4.8 | 1.1 | 15.5 | 16.1 | 2.6 | 22.0 | 22.6 | 21.5 | 21.2 | 20.9 | 21.0 | 21.2 |
| 7700.00 | 15.2 | -42.8 | -3.6 | -6.2 | 5.6 | 1.1 | 14.9 | 15.5 | 2.6 | 21.4 | 21.8 | 20.7 | 20.4 | 20.1 | 20.5 | 20.2 |
| 7800.00 | 14.3 | -45.8 | -3.4 | -5.9 | 8.3 | 1.1 | 14.0 | 14.6 | 2.6 | 21.9 | 21.5 | 21.2 | 20.8 | 20.5 | 20.7 | 20.6 |
| 7900.00 | 13.0 | -46.4 | -3.7 | -5.6 | 10.5 | 1.0 | 13.0 | 13.6 | 2.7 | 19.6 | 19.9 | 18.9 | 18.6 | 18.8 | 18.5 | 14.5 |
| 8000.00 | 11.8 | -47.7 | -3.7 | -5.5 | 13.6 | 1.0 | 11.8 | 12.4 | 2.4 | 19.4 | 18.7 | 18.5 | 18.2 | 18.4 | 17.8 | 13.3 |

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 81 mA, $I_{EN}$ = 2.26 mA @ Temperature = + 85°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 41.7 | 41.5 | 41.5 | 41.4 | 41.3 | 41.1 | 40.7 |
| 1000.0 | 40.8 | 40.8 | 40.7 | 40.5 | 40.4 | 40.1 | 39.7 |
| 2000.0 | 39.9 | 39.6 | 39.5 | 39.3 | 39.0 | 38.7 | 38.3 |
| 4000.0 | 44.1 | 44.0 | 43.8 | 43.5 | 43.3 | 43.1 | 42.9 |
| 6000.0 | 33.7 | 33.6 | 33.3 | 33.0 | 32.6 | 32.2 | 31.9 |
| 8000.0 | 38.1 | 37.6 | 37.3 | 37.2 | 37.8 | 39.4 | 41.9 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 86 mA, $I_{EN}$ = 2.24 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.1 | -29.8 | -9.0 | -8.5 | 1.4 | 0.8 | 18.3 | 21.6 | 2.0 | 26.8 | 27.4 | 27.3 | 27.2 | 27.2 | 27.0 | 26.7 |
| 5600.00 | 21.3 | -29.9 | -8.8 | -8.6 | 1.4 | 0.8 | 17.9 | 21.4 | 2.0 | 25.9 | 26.3 | 26.0 | 26.0 | 25.8 | 25.6 | 25.2 |
| 5700.00 | 21.2 | -29.8 | -9.1 | -8.8 | 1.4 | 0.8 | 17.7 | 21.1 | 2.0 | 26.4 | 26.3 | 26.1 | 26.1 | 26.0 | 25.8 | 25.4 |
| 5800.00 | 21.4 | -30.0 | -8.8 | -8.8 | 1.4 | 0.8 | 17.7 | 20.9 | 2.0 | 26.4 | 26.1 | 26.3 | 26.1 | 26.0 | 25.8 | 25.4 |
| 5900.00 | 21.4 | -30.0 | -9.1 | -9.0 | 1.4 | 0.8 | 17.6 | 20.4 | 2.0 | 25.9 | 25.6 | 25.9 | 25.8 | 25.6 | 25.4 | 24.9 |
| 6000.00 | 21.5 | -30.1 | -8.8 | -9.0 | 1.4 | 0.8 | 17.6 | 20.0 | 2.0 | 24.5 | 24.7 | 24.7 | 24.5 | 24.3 | 24.0 | 23.5 |
| 6100.00 | 21.5 | -30.0 | -9.0 | -9.3 | 1.4 | 0.8 | 18.2 | 20.2 | 2.0 | 25.9 | 26.0 | 25.5 | 25.4 | 25.3 | 25.2 | 24.9 |
| 6200.00 | 21.6 | -30.2 | -8.7 | -9.3 | 1.4 | 0.8 | 18.4 | 20.1 | 2.0 | 25.3 | 25.2 | 25.1 | 25.0 | 24.9 | 24.8 | 24.6 |
| 6300.00 | 21.6 | -30.2 | -8.9 | -9.6 | 1.4 | 0.8 | 18.7 | 20.3 | 2.0 | 26.3 | 26.0 | 26.1 | 26.0 | 25.9 | 26.0 | 25.9 |
| 6400.00 | 21.7 | -30.5 | -8.6 | -9.5 | 1.5 | 0.8 | 18.9 | 20.4 | 2.0 | 25.5 | 26.2 | 25.7 | 25.8 | 25.9 | 25.9 | 25.9 |
| 6500.00 | 21.6 | -30.5 | -8.8 | -9.9 | 1.5 | 0.8 | 18.9 | 20.3 | 2.1 | 25.8 | 26.1 | 25.9 | 25.9 | 26.0 | 26.1 | 26.1 |
| 6600.00 | 21.7 | -30.8 | -8.6 | -9.9 | 1.5 | 0.8 | 19.2 | 20.5 | 2.0 | 25.8 | 26.2 | 26.0 | 26.0 | 26.0 | 26.1 | 26.2 |
| 6700.00 | 21.7 | -30.9 | -8.9 | -10.3 | 1.5 | 0.9 | 19.1 | 20.4 | 2.1 | 26.1 | 25.7 | 25.8 | 25.9 | 26.0 | 26.1 | 26.2 |
| 6800.00 | 21.7 | -31.2 | -8.6 | -10.4 | 1.6 | 0.9 | 19.3 | 20.5 | 2.1 | 25.9 | 26.7 | 26.1 | 26.2 | 26.3 | 26.4 | 26.6 |
| 6900.00 | 21.7 | -31.2 | -8.9 | -10.8 | 1.6 | 0.9 | 19.3 | 20.5 | 2.1 | 26.4 | 26.3 | 26.4 | 26.3 | 26.5 | 26.6 | 26.9 |
| 7000.00 | 21.7 | -31.6 | -8.7 | -10.9 | 1.6 | 0.9 | 19.4 | 20.5 | 2.2 | 25.8 | 26.1 | 25.8 | 25.9 | 26.1 | 26.2 | 26.4 |
| 7100.00 | 21.6 | -31.7 | -9.0 | -11.5 | 1.7 | 0.9 | 19.4 | 20.5 | 2.2 | 26.0 | 25.8 | 26.3 | 26.3 | 26.4 | 26.6 | 26.8 |
| 7200.00 | 21.6 | -32.2 | -8.7 | -11.6 | 1.7 | 0.9 | 19.5 | 20.5 | 2.2 | 25.6 | 26.3 | 26.2 | 26.2 | 26.4 | 26.6 | 26.9 |
| 7300.00 | 21.5 | -32.4 | -9.0 | -12.4 | 1.8 | 1.0 | 19.3 | 20.4 | 2.3 | 25.6 | 25.5 | 25.6 | 25.8 | 26.0 | 26.2 | 26.5 |
| 7400.00 | 21.4 | -33.0 | -8.7 | -12.6 | 1.9 | 1.0 | 19.4 | 20.4 | 2.3 | 25.7 | 25.3 | 25.8 | 25.8 | 26.0 | 26.3 | 26.6 |
| 7500.00 | 21.2 | -33.1 | -9.0 | -13.6 | 2.0 | 1.0 | 19.1 | 20.1 | 2.4 | 25.8 | 26.0 | 25.8 | 25.9 | 26.1 | 26.5 | 26.8 |
| 7600.00 | 21.0 | -34.0 | -8.5 | -13.7 | 2.2 | 1.0 | 19.1 | 20.0 | 2.5 | 26.1 | 26.0 | 25.8 | 26.0 | 26.2 | 26.4 | 26.7 |
| 7700.00 | 20.7 | -34.1 | -8.6 | -15.0 | 2.3 | 1.0 | 19.1 | 19.9 | 2.6 | 24.7 | 24.5 | 24.8 | 24.9 | 25.1 | 25.3 | 25.6 |
| 7800.00 | 20.3 | -35.2 | -7.9 | -15.0 | 2.6 | 1.1 | 18.8 | 19.7 | 2.6 | 25.4 | 25.5 | 25.6 | 25.7 | 25.9 | 26.2 | 26.6 |
| 7900.00 | 19.9 | -35.5 | -7.8 | -16.1 | 2.8 | 1.1 | 18.6 | 19.5 | 2.8 | 25.6 | 25.1 | 25.6 | 25.7 | 26.0 | 26.3 | 26.7 |
| 8000.00 | 19.3 | -37.0 | -6.9 | -15.3 | 3.3 | 1.2 | 18.4 | 19.1 | 2.9 | 25.2 | 24.5 | 24.8 | 25.1 | 25.4 | 25.9 | 26.3 |
| 8100.00 | 18.7 | -37.2 | -6.6 | -15.4 | 3.5 | 1.2 | 18.2 | 18.9 | 3.0 | 25.3 | 25.2 | 25.0 | 25.1 | 25.4 | 25.9 | 26.2 |
| 8200.00 | 17.8 | -39.1 | -5.6 | -13.6 | 4.4 | 1.2 | 17.9 | 18.5 | 3.2 | 24.5 | | 24.3 | 24.6 | 24.9 | 25.4 | 25.3 |
| 8300.00 | 17.2 | -39.3 | -5.3 | -12.8 | 4.6 | 1.2 | 17.6 | 18.2 | 3.4 | 24.7 | 24.7 | 24.9 | 24.9 | 25.2 | 25.7 | 25.7 |
| 8400.00 | 15.9 | -41.5 | -4.5 | -10.8 | 6.1 | 1.3 | 17.1 | 17.7 | 3.6 | 25.3 | 25.3 | 25.2 | 25.4 | 25.7 | 26.1 | 25.9 |
| 8500.00 | 15.1 | -41.8 | -4.1 | -9.9 | 6.4 | 1.3 | 16.6 | 17.1 | 3.8 | 24.1 | 23.8 | 24.0 | 24.4 | 24.8 | 24.9 | 23.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 37.1 | 37.1 | 36.9 | 36.6 | 36.4 | 36.0 | 35.7 |
| 6000.0 | 34.6 | 34.5 | 34.2 | 34.0 | 33.6 | 33.2 | 32.8 |
| 7000.0 | 44.5 | 44.3 | 44.1 | 43.8 | 43.5 | 43.2 | 43.1 |
| 8000.0 | 52.6 | 52.4 | 52.2 | 51.8 | 51.5 | 51.2 | 51.2 |
| 8500.0 | 60.5 | 60.3 | 60.0 | 59.6 | 59.3 | 59.2 | 59.6 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.1 | 1.1 | 0.9 | 3.5 |
| 300.00 | -2.4 | -2.5 | -6.7 | -11.9 | 1.0 | 0.7 | 2.4 |
| 400.00 | -1.8 | -1.8 | -9.3 | -14.0 | 1.0 | 0.6 | 2.1 |
| 500.00 | -1.5 | -1.5 | -12.0 | -15.7 | 1.0 | 0.5 | 2.0 |
| 600.00 | -1.3 | -1.4 | -14.9 | -16.9 | 1.0 | 0.5 | 1.4 |
| 700.00 | -1.2 | -1.3 | -18.1 | -17.8 | 1.0 | 0.5 | 1.4 |
| 800.00 | -1.2 | -1.3 | -22.1 | -17.9 | 1.0 | 0.4 | 1.5 |
| 900.00 | -1.2 | -1.3 | -27.1 | -17.7 | 1.0 | 0.4 | 1.3 |
| 1000.00 | -1.1 | -1.3 | -30.5 | -17.3 | 1.0 | 0.4 | 1.1 |
| 1100.00 | -1.1 | -1.3 | -26.6 | -17.0 | 1.0 | 0.4 | 1.4 |
| 1200.00 | -1.2 | -1.3 | -23.0 | -16.7 | 1.0 | 0.4 | 1.3 |
| 1300.00 | -1.2 | -1.3 | -20.6 | -16.3 | 1.0 | 0.4 | 1.2 |
| 1400.00 | -1.2 | -1.3 | -18.7 | -15.9 | 1.0 | 0.4 | 1.2 |
| 1500.00 | -1.2 | -1.4 | -17.4 | -15.5 | 1.0 | 0.5 | 1.5 |
| 1600.00 | -1.3 | -1.4 | -16.2 | -15.4 | 1.0 | 0.5 | 1.7 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.3 | 1.0 | 0.5 | 1.4 |
| 1800.00 | -1.3 | -1.5 | -14.7 | -15.2 | 1.0 | 0.5 | 1.6 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 1.8 |
| 2000.00 | -1.4 | -1.6 | -13.8 | -15.0 | 1.0 | 0.5 | 1.7 |
| 2100.00 | -1.4 | -1.7 | -13.5 | -15.2 | 1.0 | 0.5 | 1.6 |
| 2200.00 | -1.5 | -1.7 | -13.3 | -15.4 | 1.0 | 0.5 | 1.8 |
| 2300.00 | -1.5 | -1.7 | -13.1 | -15.6 | 1.0 | 0.6 | 2.1 |
| 2400.00 | -1.5 | -1.8 | -13.0 | -15.9 | 1.0 | 0.6 | 2.1 |
| 2500.00 | -1.6 | -1.9 | -13.0 | -16.3 | 1.0 | 0.6 | 2.0 |
| 2600.00 | -1.6 | -1.9 | -13.1 | -16.9 | 1.1 | 0.6 | 2.0 |
| 2700.00 | -1.6 | -2.0 | -13.2 | -17.6 | 1.1 | 0.6 | 2.1 |
| 2800.00 | -1.6 | -2.0 | -13.3 | -18.3 | 1.1 | 0.6 | 2.2 |
| 2900.00 | -1.6 | -2.0 | -13.4 | -19.1 | 1.1 | 0.6 | 2.2 |
| 3000.00 | -1.6 | -2.1 | -13.6 | -20.2 | 1.1 | 0.6 | 2.4 |
| 3100.00 | -1.7 | -2.1 | -13.7 | -21.7 | 1.1 | 0.7 | 2.4 |
| 3200.00 | -1.7 | -2.1 | -13.8 | -23.4 | 1.1 | 0.7 | 2.4 |
| 3300.00 | -1.7 | -2.0 | -13.9 | -25.0 | 1.1 | 0.7 | 2.4 |
| 3400.00 | -1.7 | -2.1 | -13.9 | -26.7 | 1.1 | 0.7 | 2.5 |
| 3500.00 | -1.7 | -2.1 | -13.9 | -27.6 | 1.1 | 0.7 | 2.3 |
| 3600.00 | -1.7 | -2.1 | -13.8 | -26.1 | 1.1 | 0.7 | 2.6 |
| 3700.00 | -1.7 | -2.1 | -13.8 | -23.9 | 1.1 | 0.7 | 2.3 |
| 3800.00 | -1.7 | -2.1 | -13.6 | -21.9 | 1.1 | 0.7 | 2.4 |
| 3900.00 | -1.8 | -2.1 | -13.4 | -20.3 | 1.1 | 0.7 | 2.2 |
| 4000.00 | -1.8 | -2.1 | -13.1 | -18.7 | 1.1 | 0.7 | 2.1 |
| 4100.00 | -1.8 | -2.2 | -12.8 | -17.4 | 1.1 | 0.7 | 2.2 |
| 4200.00 | -1.8 | -2.2 | -12.5 | -16.3 | 1.1 | 0.6 | 1.8 |
| 4300.00 | -1.8 | -2.2 | -12.3 | -15.5 | 1.1 | 0.6 | 2.0 |
| 4400.00 | -1.9 | -2.2 | -12.0 | -14.7 | 1.1 | 0.6 | 1.7 |
| 4500.00 | -1.9 | -2.3 | -11.8 | -14.1 | 1.1 | 0.6 | 2.1 |
| 4600.00 | -1.9 | -2.3 | -11.6 | -13.5 | 1.1 | 0.6 | 1.8 |
| 4700.00 | -1.9 | -2.3 | -11.4 | -13.0 | 1.1 | 0.6 | 2.6 |
| 4800.00 | -1.9 | -2.3 | -11.3 | -12.8 | 1.1 | 0.6 | 2.0 |
| 4900.00 | -1.9 | -2.4 | -11.2 | -12.5 | 1.1 | 0.6 | 2.0 |
| 5000.00 | -1.9 | -2.4 | -11.0 | -12.1 | 1.1 | 0.6 | 2.0 |
| 5100.00 | -1.9 | -2.4 | -11.0 | -11.9 | 1.1 | 0.6 | 2.1 |
| 5200.00 | -1.9 | -2.4 | -10.9 | -11.8 | 1.1 | 0.6 | 2.0 |
| 5300.00 | -1.9 | -2.4 | -11.0 | -11.7 | 1.1 | 0.6 | 1.8 |
| 5400.00 | -1.9 | -2.5 | -11.0 | -11.6 | 1.1 | 0.6 | 1.8 |
| 5500.00 | -1.9 | -2.5 | -11.0 | -11.4 | 1.1 | 0.6 | 2.1 |
| 5600.00 | -1.9 | -2.4 | -11.2 | -11.5 | 1.1 | 0.6 | 1.8 |
| 5700.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 1.7 |
| 5800.00 | -1.8 | -2.4 | -11.5 | -11.6 | 1.1 | 0.6 | 1.4 |
| 5900.00 | -1.8 | -2.4 | -11.8 | -11.8 | 1.1 | 0.6 | 1.2 |
| 6000.00 | -1.8 | -2.4 | -11.9 | -11.7 | 1.1 | 0.6 | 2.1 |
| 6100.00 | -1.7 | -2.4 | -12.3 | -11.9 | 1.1 | 0.6 | 1.8 |
| 6200.00 | -1.8 | -2.4 | -12.7 | -12.2 | 1.1 | 0.6 | 1.4 |
| 6300.00 | -1.7 | -2.4 | -12.9 | -12.3 | 1.1 | 0.6 | 2.1 |
| 6400.00 | -1.7 | -2.4 | -13.3 | -12.6 | 1.1 | 0.6 | 2.1 |
| 6500.00 | -1.7 | -2.4 | -13.6 | -12.6 | 1.1 | 0.6 | 1.3 |
| 6600.00 | -1.7 | -2.4 | -13.8 | -12.7 | 1.1 | 0.6 | 1.5 |
| 6700.00 | -1.6 | -2.3 | -14.3 | -13.1 | 1.1 | 0.6 | 2.1 |
| 6800.00 | -1.7 | -2.4 | -14.6 | -13.2 | 1.1 | 0.6 | 1.6 |
| 6900.00 | -1.6 | -2.4 | -14.7 | -13.2 | 1.1 | 0.6 | 1.7 |
| 7000.00 | -1.7 | -2.4 | -14.9 | -13.3 | 1.1 | 0.6 | 1.6 |
| 7100.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 2.0 |
| 7200.00 | -1.7 | -2.4 | -14.6 | -13.3 | 1.1 | 0.6 | 1.4 |
| 7300.00 | -1.8 | -2.5 | -14.4 | -13.2 | 1.1 | 0.6 | 1.9 |
| 7400.00 | -1.8 | -2.6 | -13.9 | -12.8 | 1.1 | 0.6 | 1.6 |
| 7500.00 | -1.9 | -2.6 | -13.4 | -12.6 | 1.1 | 0.6 | 1.6 |
| 7600.00 | -2.0 | -2.7 | -13.0 | -12.3 | 1.2 | 0.7 | 1.6 |
| 7700.00 | -2.1 | -2.8 | -12.2 | -11.6 | 1.2 | 0.7 | 1.4 |
| 7800.00 | -2.2 | -2.9 | -11.6 | -11.2 | 1.2 | 0.7 | 2.0 |
| 7900.00 | -2.4 | -3.1 | -11.0 | -10.6 | 1.2 | 0.7 | 2.2 |
| 8000.00 | -2.4 | -3.1 | -10.1 | -9.9 | 1.2 | 0.7 | 1.9 |

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 31.3 | 30.0 | 27.8 | 24.5 | 19.7 | 15.4 | 14.7 |
| 1000.0 | 33.2 | 32.0 | 29.8 | 26.4 | 20.6 | 14.8 | 15.8 |
| 2000.0 | 34.9 | 34.3 | 32.9 | 30.5 | 26.7 | 19.8 | 16.5 |
| 4000.0 | 35.6 | 35.3 | 34.6 | 33.3 | 30.8 | 26.8 | 20.8 |
| 6000.0 | 36.6 | 36.1 | 35.3 | 33.5 | 30.4 | 25.0 | 17.8 |
| 8000.0 | 37.2 | 37.0 | 35.8 | 34.0 | 31.1 | 25.8 | 17.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 71.4 | 70.7 | 69.3 | 66.4 | 58.8 | 47.3 | 46.3 |
| 1000.0 | 71.2 | 71.3 | 71.1 | 69.4 | 60.8 | 52.2 | 52.2 |
| 2000.0 | 71.3 | 71.0 | 70.7 | 70.0 | 67.7 | 59.6 | 52.3 |
| 4000.0 | 72.4 | 72.4 | 72.4 | 72.7 | 73.3 | 73.2 | 57.6 |
| 6000.0 | 72.4 | 72.3 | 72.1 | 71.7 | 70.8 | 67.0 | 57.6 |
| 8000.0 | 83.4 | 83.3 | 83.3 | 83.0 | 82.2 | 79.7 | 69.6 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 12.2 | 9.3 |
| 1000.0 | 11.8 | 9.6 |
| 2000.0 | 13.5 | 11.1 |
| 4000.0 | 15.7 | 13.1 |
| 6000.0 | 16.1 | 13.1 |
| 8000.0 | 16.0 | 12.6 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.4 | -20.0 | -17.4 | 1.1 | 0.7 | 2.9 |
| 5600.00 | -1.7 | -2.4 | -20.5 | -17.2 | 1.1 | 0.7 | 2.6 |
| 5700.00 | -1.7 | -2.4 | -20.3 | -17.0 | 1.1 | 0.7 | 2.6 |
| 5800.00 | -1.7 | -2.4 | -19.8 | -16.3 | 1.1 | 0.7 | 2.7 |
| 5900.00 | -1.7 | -2.4 | -18.9 | -15.8 | 1.1 | 0.7 | 2.7 |
| 6000.00 | -1.7 | -2.5 | -18.2 | -15.2 | 1.1 | 0.7 | 2.4 |
| 6100.00 | -1.7 | -2.5 | -17.1 | -14.5 | 1.1 | 0.7 | 2.8 |
| 6200.00 | -1.7 | -2.5 | -16.3 | -13.9 | 1.1 | 0.7 | 2.7 |
| 6300.00 | -1.7 | -2.6 | -15.2 | -13.2 | 1.1 | 0.7 | 3.0 |
| 6400.00 | -1.8 | -2.6 | -14.5 | -12.7 | 1.1 | 0.7 | 2.5 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.1 | 1.1 | 0.7 | 2.8 |
| 6600.00 | -1.8 | -2.7 | -13.0 | -11.6 | 1.1 | 0.7 | 2.7 |
| 6700.00 | -1.9 | -2.8 | -12.3 | -11.1 | 1.1 | 0.7 | 3.0 |
| 6800.00 | -2.0 | -2.8 | -11.6 | -10.6 | 1.1 | 0.7 | 3.0 |
| 6900.00 | -2.0 | -2.9 | -11.0 | -10.1 | 1.1 | 0.7 | 2.9 |
| 7000.00 | -2.1 | -3.0 | -10.4 | -9.7 | 1.1 | 0.7 | 3.1 |
| 7100.00 | -2.2 | -3.1 | -9.8 | -9.2 | 1.1 | 0.6 | 3.0 |
| 7200.00 | -2.3 | -3.2 | -9.3 | -8.8 | 1.1 | 0.6 | 3.2 |
| 7300.00 | -2.5 | -3.3 | -8.8 | -8.4 | 1.1 | 0.6 | 3.1 |
| 7400.00 | -2.6 | -3.4 | -8.3 | -8.0 | 1.1 | 0.6 | 3.1 |
| 7500.00 | -2.7 | -3.6 | -7.8 | -7.6 | 1.2 | 0.6 | 3.4 |
| 7600.00 | -2.9 | -3.7 | -7.4 | -7.2 | 1.2 | 0.6 | 3.4 |
| 7700.00 | -3.1 | -3.9 | -6.9 | -6.8 | 1.2 | 0.6 | 3.4 |
| 7800.00 | -3.2 | -4.1 | -6.5 | -6.5 | 1.2 | 0.6 | 3.5 |
| 7900.00 | -3.4 | -4.3 | -6.1 | -6.1 | 1.2 | 0.6 | 3.8 |
| 8000.00 | -3.6 | -4.4 | -5.8 | -5.8 | 1.2 | 0.6 | 4.0 |
| 8100.00 | -3.8 | -4.6 | -5.3 | -5.4 | 1.2 | 0.6 | 4.1 |
| 8200.00 | -4.1 | -4.8 | -5.1 | -5.2 | 1.2 | 0.6 | 4.0 |
| 8300.00 | -4.3 | -5.0 | -4.7 | -4.9 | 1.2 | 0.6 | 3.6 |
| 8400.00 | -4.5 | -5.2 | -4.5 | -4.7 | 1.2 | 0.6 | 4.0 |
| 8500.00 | -4.7 | -5.4 | -4.2 | -4.4 | 1.2 | 0.6 | 4.1 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 15.1 | 12.1 |
| 6000.0 | 15.6 | 12.7 |
| 7000.0 | 17.2 | 13.6 |
| 8000.0 | 17.8 | 12.6 |
| 8500.0 | 16.7 | 11.3 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 69.9 | 69.9 | 69.8 | 69.5 | 68.5 | 64.9 | 58.9 | 38.6 | 37.8 | 36.7 | 36.3 | 33.9 | 30.2 | 24.0 |
| 6000.0 | 75.3 | 75.4 | 75.3 | 75.1 | 74.8 | 73.6 | 68.1 | 38.6 | 38.0 | 37.7 | 35.7 | 32.8 | 27.8 | 18.6 |
| 7000.0 | 86.4 | 86.3 | 86.1 | 85.8 | 85.0 | 83.0 | 75.7 | 37.6 | 38.6 | 38.2 | 34.9 | 32.2 | 28.2 | 22.2 |
| 8000.0 | 83.6 | 83.6 | 83.4 | 83.3 | 82.8 | 81.4 | 75.0 | 37.7 | 37.8 | 37.1 | 36.8 | 34.9 | 31.5 | 25.5 |
| 8500.0 | 92.3 | 92.3 | 92.3 | 92.3 | 92.0 | 89.4 | 96.6 | 38.1 | 37.0 | 35.7 | 32.9 | 28.3 | 19.4 | 15.9 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 93 mA, $I_{EN}$ = 2.48 mA @ Temperature = + 85°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.9 | -33.1 | -1.9 | -4.7 | 1.5 | 1.0 | 19.4 | 21.5 | 5.2 | 29.8 | 31.7 | 33.1 | 32.6 | 32.7 | 32.4 | 32.0 |
| 300.00 | 19.7 | -28.3 | -5.9 | -8.9 | 1.2 | 0.8 | 20.4 | 22.0 | 2.9 | 29.2 | 33.3 | 33.2 | 33.9 | 33.6 | 33.6 | 33.3 |
| 400.00 | 21.2 | -26.8 | -12.0 | -15.1 | 1.2 | 0.7 | 21.2 | 22.4 | 2.2 | 33.0 | 35.8 | 34.2 | 34.6 | 34.8 | 34.8 | 34.5 |
| 500.00 | 21.5 | -26.4 | -18.0 | -18.6 | 1.2 | 0.7 | 21.6 | 22.6 | 1.9 | 31.5 | 33.3 | 34.7 | 34.6 | 34.7 | 34.9 | 34.5 |
| 600.00 | 21.6 | -26.4 | -18.7 | -17.8 | 1.1 | 0.7 | 21.9 | 22.7 | 1.7 | 33.1 | 34.1 | 34.9 | 35.2 | 35.8 | 35.7 | 35.4 |
| 700.00 | 21.6 | -26.3 | -17.1 | -16.7 | 1.1 | 0.6 | 22.1 | 22.9 | 1.6 | 33.4 | 35.1 | 34.5 | 35.1 | 35.4 | 35.2 | 34.9 |
| 800.00 | 21.6 | -26.4 | -16.1 | -16.3 | 1.1 | 0.6 | 22.2 | 23.0 | 1.6 | 33.7 | 36.1 | 34.6 | 35.2 | 34.9 | 34.7 | 34.4 |
| 900.00 | 21.6 | -26.4 | -15.6 | -16.2 | 1.1 | 0.7 | 22.3 | 23.1 | 1.6 | 34.1 | 36.1 | 35.3 | 35.1 | 35.1 | 35.0 | 34.7 |
| 1000.00 | 21.6 | -26.5 | -15.3 | -16.4 | 1.1 | 0.7 | 22.4 | 23.2 | 1.6 | 33.9 | 36.2 | 35.4 | 35.8 | 35.6 | 35.2 | 35.1 |
| 1100.00 | 21.6 | -26.5 | -15.3 | -16.8 | 1.1 | 0.7 | 22.3 | 23.1 | 1.6 | 34.1 | 34.3 | 34.6 | 35.4 | 34.8 | 34.9 | 34.7 |
| 1200.00 | 21.6 | -26.5 | -15.4 | -17.5 | 1.1 | 0.7 | 22.4 | 23.2 | 1.6 | 33.4 | 33.8 | 34.4 | 34.8 | 34.7 | 34.6 | 34.4 |
| 1300.00 | 21.6 | -26.6 | -15.6 | -18.3 | 1.2 | 0.7 | 22.4 | 23.3 | 1.6 | 32.3 | 33.1 | 34.3 | 34.2 | 34.2 | 34.1 | 33.8 |
| 1400.00 | 21.7 | -26.6 | -15.8 | -19.4 | 1.2 | 0.7 | 22.4 | 23.2 | 1.6 | 36.0 | 34.0 | 34.9 | 34.7 | 34.6 | 34.5 | 34.4 |
| 1500.00 | 21.7 | -26.6 | -16.0 | -20.8 | 1.2 | 0.7 | 22.3 | 23.3 | 1.6 | 32.6 | 32.9 | 33.2 | 33.5 | 33.3 | 33.2 | 33.0 |
| 1600.00 | 21.6 | -26.7 | -16.0 | -22.6 | 1.2 | 0.7 | 22.3 | 23.3 | 1.7 | 32.6 | 33.1 | 33.5 | 33.4 | 33.9 | 33.8 | 33.6 |
| 1700.00 | 21.7 | -26.8 | -15.9 | -24.1 | 1.2 | 0.7 | 22.4 | 23.5 | 1.7 | 31.6 | 33.4 | 32.8 | 33.4 | 33.3 | 33.2 | 33.0 |
| 1800.00 | 21.7 | -26.9 | -15.9 | -26.4 | 1.2 | 0.7 | 22.3 | 23.4 | 1.7 | 31.5 | 33.2 | 33.6 | 33.2 | 33.1 | 33.1 | 32.9 |
| 1900.00 | 21.7 | -26.8 | -15.6 | -27.7 | 1.2 | 0.7 | 22.2 | 23.4 | 1.8 | 30.2 | 32.8 | 31.6 | 32.0 | 32.2 | 32.1 | 31.9 |
| 2000.00 | 21.7 | -26.9 | -15.3 | -27.1 | 1.2 | 0.7 | 22.0 | 23.2 | 1.8 | 32.7 | 32.1 | 32.9 | 32.8 | 32.8 | 32.6 | 32.5 |
| 2100.00 | 21.7 | -27.0 | -14.7 | -25.1 | 1.2 | 0.7 | 22.1 | 23.5 | 1.8 | 32.0 | 32.6 | 32.0 | 32.5 | 32.6 | 32.3 | 32.2 |
| 2200.00 | 21.7 | -27.0 | -14.2 | -23.1 | 1.2 | 0.7 | 22.0 | 23.4 | 1.8 | 33.2 | 32.3 | 32.7 | 33.0 | 32.8 | 32.8 | 32.7 |
| 2300.00 | 21.7 | -27.1 | -13.6 | -21.0 | 1.2 | 0.7 | 22.0 | 23.5 | 1.8 | 30.1 | 32.6 | 31.6 | 32.4 | 32.4 | 32.4 | 32.2 |
| 2400.00 | 21.7 | -27.3 | -13.1 | -19.5 | 1.2 | 0.8 | 21.7 | 23.5 | 1.8 | 33.7 | 31.7 | 31.4 | 31.2 | 31.2 | 31.2 | 30.9 |
| 2500.00 | 21.6 | -27.3 | -12.6 | -18.2 | 1.2 | 0.8 | 21.5 | 23.5 | 1.9 | 31.2 | 31.6 | 31.1 | 31.2 | 31.2 | 31.0 | 30.7 |
| 2600.00 | 21.6 | -27.5 | -12.1 | -17.1 | 1.2 | 0.8 | 21.3 | 23.4 | 1.9 | 30.8 | 30.6 | 30.4 | 30.9 | 31.0 | 30.8 | 30.5 |
| 2700.00 | 21.6 | -27.6 | -11.7 | -16.3 | 1.2 | 0.8 | 21.0 | 23.1 | 2.0 | 30.6 | 30.8 | 31.3 | 31.5 | 31.3 | 31.2 | 31.1 |
| 2800.00 | 21.6 | -27.7 | -11.3 | -15.5 | 1.2 | 0.8 | 20.9 | 23.0 | 2.0 | 31.0 | 31.2 | 30.5 | 30.8 | 30.8 | 30.7 | 30.6 |
| 2900.00 | 21.5 | -27.8 | -10.8 | -14.8 | 1.2 | 0.8 | 20.7 | 22.8 | 2.0 | 29.9 | | 29.5 | 30.0 | 29.8 | 29.7 | 29.4 |
| 3000.00 | 21.5 | -27.8 | -10.5 | -14.2 | 1.2 | 0.8 | 20.8 | 22.9 | 2.0 | 30.2 | 30.3 | 29.8 | 29.8 | 29.8 | 29.7 | 29.5 |
| 3100.00 | 21.5 | -28.0 | -10.2 | -13.8 | 1.2 | 0.8 | 20.6 | 23.0 | 2.0 | 28.7 | 29.8 | 29.4 | 29.5 | 29.4 | 29.3 | 29.0 |
| 3200.00 | 21.5 | -28.0 | -9.9 | -13.5 | 1.2 | 0.8 | 20.7 | 23.1 | 2.0 | 30.0 | 30.1 | 29.9 | 29.6 | 29.7 | 29.7 | 29.4 |
| 3300.00 | 21.5 | -28.0 | -9.8 | -13.3 | 1.2 | 0.8 | 20.5 | 22.9 | 2.0 | 29.6 | 29.8 | 29.6 | 29.7 | 29.7 | 29.5 | 29.3 |
| 3400.00 | 21.5 | -28.0 | -9.6 | -13.1 | 1.2 | 0.8 | 20.4 | 22.7 | 2.1 | 30.2 | 29.1 | 30.0 | 30.0 | 30.0 | 30.0 | 29.8 |
| 3500.00 | 21.5 | -28.1 | -9.6 | -13.1 | 1.2 | 0.8 | 20.5 | 22.8 | 2.1 | 28.9 | 29.6 | 29.4 | 29.3 | 29.3 | 29.2 | 29.0 |
| 3600.00 | 21.5 | -28.1 | -9.6 | -13.2 | 1.2 | 0.8 | 20.5 | 22.7 | 2.0 | 30.1 | 29.4 | 29.2 | 29.3 | 29.2 | 29.1 | 28.9 |
| 3700.00 | 21.6 | -28.2 | -9.5 | -13.3 | 1.2 | 0.8 | 20.7 | 22.9 | 2.0 | 31.2 | 29.6 | 30.0 | 30.5 | 30.3 | 30.3 | 30.2 |
| 3800.00 | 21.6 | -28.2 | -9.7 | -13.6 | 1.2 | 0.8 | 20.7 | 22.9 | 2.0 | 29.2 | 30.0 | 29.3 | 29.2 | 29.3 | 29.2 | 29.0 |
| 3900.00 | 21.6 | -28.2 | -9.8 | -13.8 | 1.2 | 0.8 | 20.8 | 23.0 | 1.9 | 28.8 | 29.7 | 29.3 | 29.3 | 29.5 | 29.5 | 29.4 |
| 4000.00 | 21.7 | -28.3 | -10.0 | -14.2 | 1.2 | 0.8 | 20.7 | 23.1 | 1.9 | 29.0 | 29.5 | 29.7 | 29.9 | 29.9 | 29.9 | 29.8 |
| 4100.00 | 21.7 | -28.3 | -10.3 | -14.8 | 1.3 | 0.8 | 20.7 | 23.1 | 1.9 | 29.8 | 29.3 | 29.1 | 29.3 | 29.4 | 29.5 | 29.4 |
| 4200.00 | 21.8 | -28.3 | -10.5 | -15.4 | 1.3 | 0.8 | 20.8 | 23.1 | 1.8 | 28.9 | 29.4 | 28.7 | 29.3 | 29.3 | 29.4 | 29.4 |
| 4300.00 | 21.8 | -28.4 | -10.8 | -15.8 | 1.3 | 0.8 | 20.7 | 23.1 | 1.9 | 28.7 | 29.0 | 29.2 | 29.5 | 29.6 | 29.6 | 29.5 |
| 4400.00 | 21.9 | -28.4 | -11.3 | -16.5 | 1.3 | 0.8 | 20.7 | 23.1 | 1.8 | 29.9 | 28.8 | 29.0 | 29.1 | 29.4 | 29.2 | 29.2 |
| 4500.00 | 22.0 | -28.4 | -11.6 | -17.3 | 1.3 | 0.8 | 20.4 | 23.0 | 1.9 | 29.8 | 28.9 | 29.2 | 29.1 | 29.1 | 29.1 | 29.0 |
| 4600.00 | 22.0 | -28.4 | -12.2 | -18.0 | 1.3 | 0.8 | 20.2 | 22.8 | 1.9 | 28.9 | 28.7 | 28.7 | 28.8 | 28.9 | 28.9 | 28.8 |
| 4700.00 | 22.0 | -28.5 | -12.7 | -19.0 | 1.3 | 0.8 | 20.3 | 22.9 | 1.9 | 28.6 | 28.6 | 28.5 | 28.6 | 28.7 | 28.7 | 28.5 |
| 4800.00 | 22.1 | -28.6 | -13.1 | -19.4 | 1.3 | 0.8 | 20.5 | 23.0 | 1.9 | 29.4 | 28.5 | 28.9 | 29.0 | 29.1 | 29.2 | 29.1 |
| 4900.00 | 22.1 | -28.7 | -13.9 | -20.2 | 1.3 | 0.8 | 20.4 | 22.8 | 1.9 | 28.6 | 28.9 | 28.4 | 28.4 | 28.4 | 28.5 | 28.3 |
| 5000.00 | 22.2 | -28.7 | -14.3 | -21.3 | 1.3 | 0.8 | 20.3 | 22.6 | 1.9 | 28.0 | 28.1 | 28.1 | 28.0 | 28.1 | 28.1 | 28.0 |
| 5100.00 | 22.3 | -28.9 | -14.6 | -21.5 | 1.3 | 0.8 | 20.7 | 22.8 | 1.9 | 27.8 | 28.4 | 27.7 | 27.9 | 28.0 | 28.1 | 28.0 |
| 5200.00 | 22.3 | -28.9 | -15.3 | -22.2 | 1.3 | 0.8 | 20.8 | 22.7 | 1.9 | 27.4 | 28.1 | 27.8 | 27.9 | 28.1 | 28.3 | 28.4 |
| 5300.00 | 22.4 | -28.9 | -15.1 | -22.1 | 1.3 | 0.8 | 20.4 | 22.6 | 1.9 | 27.3 | 28.4 | 27.6 | 27.8 | 28.0 | 28.1 | 28.1 |
| 5400.00 | 22.3 | -29.1 | -15.1 | -21.7 | 1.3 | 0.8 | 19.8 | 22.3 | 1.9 | 27.5 | 27.9 | 27.9 | 27.9 | 28.0 | 28.0 | 28.0 |
| 5500.00 | 22.3 | -29.1 | -15.2 | -22.5 | 1.3 | 0.8 | 19.5 | 22.1 | 1.9 | 27.3 | 28.0 | 27.2 | 27.1 | 27.2 | 27.2 | 27.0 |
| 5600.00 | 22.4 | -29.2 | -14.0 | -21.0 | 1.3 | 0.8 | 18.9 | 21.6 | 1.9 | 27.2 | 27.6 | 27.2 | 27.2 | 27.3 | 27.3 | 27.0 |
| 5700.00 | 22.2 | -29.6 | -13.6 | -20.1 | 1.4 | 0.9 | 18.8 | 21.3 | 1.9 | 25.9 | 27.5 | 26.4 | 26.4 | 26.4 | 26.3 | 26.0 |
| 5800.00 | 22.3 | -29.5 | -12.9 | -20.0 | 1.4 | 0.9 | 18.8 | 21.0 | 1.9 | 26.4 | 26.9 | 26.1 | 26.2 | 26.2 | 26.2 | 25.8 |
| 5900.00 | 22.3 | -29.8 | -11.5 | -18.0 | 1.4 | 0.9 | 18.8 | 20.7 | 2.0 | 26.5 | 26.4 | 26.3 | 26.4 | 26.3 | 26.3 | 26.0 |
| 6000.00 | 22.1 | -30.0 | -11.2 | -17.8 | 1.4 | 0.9 | 18.7 | 20.3 | 2.0 | 26.1 | 26.5 | 26.0 | 26.0 | 26.0 | 25.8 | 25.5 |
| 6100.00 | 22.2 | -29.9 | -10.0 | -16.5 | 1.4 | 0.9 | 18.9 | 20.2 | 2.1 | 25.9 | 26.4 | 26.2 | 26.2 | 26.2 | 26.2 | 26.1 |
| 6200.00 | 21.9 | -30.5 | -9.0 | -14.9 | 1.4 | 0.9 | 18.9 | 20.1 | 2.1 | 25.9 | 25.5 | 26.1 | 26.1 | 26.0 | 25.9 | 25.8 |
| 6300.00 | 21.8 | -30.6 | -8.7 | -14.5 | 1.5 | 0.9 | 18.8 | 19.9 | 2.1 | 25.2 | 25.7 | 25.3 | 25.5 | 25.5 | 25.4 | 25.3 |
| 6400.00 | 21.8 | -31.0 | -7.6 | -13.1 | 1.5 | 1.0 | 18.8 | 19.9 | 2.2 | 25.8 | 26.0 | 25.8 | 25.9 | 25.9 | 25.9 | 25.8 |
| 6500.00 | 21.5 | -31.6 | -7.0 | -12.2 | 1.5 | 1.0 | 18.9 | 19.9 | 2.2 | 25.2 | 25.2 | 25.5 | 25.6 | 25.5 | 25.5 | 25.3 |
| 6600.00 | 21.3 | -31.7 | -6.5 | -11.7 | 1.5 | 1.0 | 18.9 | 19.9 | 2.2 | 25.2 | 25.1 | 25.1 | 25.2 | 25.1 | 25.1 | 24.9 |
| 6700.00 | 21.1 | -32.5 | -5.6 | -10.5 | 1.6 | 1.0 | 18.7 | 19.6 | 2.3 | 25.0 | 24.9 | 25.2 | 25.3 | 25.3 | 25.2 | 25.0 |
| 6800.00 | 20.6 | -33.2 | -5.3 | -9.9 | 1.7 | 1.1 | 18.5 | 19.4 | 2.3 | 25.0 | 25.8 | 24.7 | 24.8 | 24.8 | 24.7 | 24.5 |
| 6900.00 | 20.4 | -33.5 | -4.8 | -9.3 | 1.7 | 1.1 | 18.4 | 19.2 | 2.3 | 24.4 | 24.2 | 24.4 | 24.6 | 24.5 | 24.4 | 24.2 |
| 7000.00 | 20.0 | -34.5 | -4.3 | -8.6 | 1.9 | 1.1 | 18.1 | 18.9 | 2.4 | 24.6 | 24.9 | 24.4 | 24.4 | 24.3 | 24.2 | 24.0 |
| 7100.00 | 19.4 | -35.4 | -4.2 | -8.2 | 2.1 | 1.1 | 17.8 | 18.5 | 2.4 | 24.6 | 24.8 | 24.4 | 24.5 | 24.4 | 24.3 | 24.0 |
| 7200.00 | 19.0 | -36.4 | -3.8 | -7.7 | 2.2 | 1.1 | 17.4 | 18.1 | 2.4 | 24.1 | 24.3 | 24.1 | 24.1 | 24.0 | 23.9 | 23.6 |
| 7300.00 | 18.3 | -38.0 | -3.6 | -7.2 | 2.7 | 1.1 | 17.0 | 17.7 | 2.5 | 23.6 | 24.6 | 23.5 | 23.5 | 23.4 | 23.2 | 22.9 |
| 7400.00 | 17.6 | -38.8 | -3.6 | -7.0 | 3.0 | 1.1 | 16.7 | 17.3 | 2.4 | 23.9 | 24.5 | 24.0 | 24.0 | 23.9 | 23.7 | 23.4 |
| 7500.00 | 17.0 | -40.6 | -3.4 | -6.7 | 3.7 | 1.1 | 16.2 | 16.7 | 2.5 | 23.4 | 23.8 | 23.0 | 22.9 | 22.7 | 22.4 | 22.1 |
| 7600.00 | 16.1 | -42.6 | -3.4 | -6.5 | 5.0 | 1.1 | 15.7 | 16.2 | 2.6 | 23.1 | 23.5 | 22.7 | 22.6 | 22.3 | 21.9 | 21.5 |
| 7700.00 | 15.4 | -43.2 | -3.6 | -6.3 | 5.8 | 1.1 | 15.1 | 15.6 | 2.6 | 22.6 | 22.9 | 21.9 | 21.8 | 21.5 | 21.1 | 20.5 |
| 7800.00 | 14.5 | -47.0 | -3.4 | -6.0 | 9.5 | 1.1 | 14.2 | 14.8 | 2.6 | 22.8 | 22.6 | 22.3 | 22.2 | 21.9 | 21.5 | 20.8 |
| 7900.00 | 13.1 | -47.3 | -3.7 | -5.7 | 11.7 | 1.0 | 13.1 | 13.7 | 2.7 | 20.8 | 21.2 | 20.3 | 20.0 | 19.5 | 18.7 | 15.3 |
| 8000.00 | 12.0 | -48.1 | -3.7 | -5.6 | 14.3 | 1.0 | 11.9 | 12.5 | 2.8 | 20.5 | 20.0 | 19.9 | 19.6 | 19.0 | 17.9 | 14.1 |

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 93 mA, $I_{EN}$ = 2.48 mA @ Temperature = + 85°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 44.5 | 44.4 | 44.4 | 44.3 | 44.2 | 44.0 | 43.7 |
| 1000.0 | 43.6 | 43.5 | 43.4 | 43.2 | 43.0 | 42.8 | 42.4 |
| 2000.0 | 41.8 | 41.6 | 41.5 | 41.3 | 41.1 | 40.8 | 40.6 |
| 4000.0 | 44.2 | 44.1 | 43.9 | 43.7 | 43.5 | 43.3 | 43.3 |
| 6000.0 | 34.1 | 33.9 | 33.7 | 33.4 | 33.2 | 32.9 | 32.7 |
| 8000.0 | 38.7 | 38.4 | 38.1 | 38.0 | 38.4 | 39.8 | 42.1 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 99 mA, $I_{EN}$ = 2.45 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.5 | -29.8 | -8.9 | -8.8 | 1.4 | 0.8 | 19.2 | 21.8 | 2.0 | 27.5 | 27.9 | 27.9 | 28.1 | 28.2 | 28.3 | 28.2 |
| 5600.00 | 21.6 | -29.8 | -8.7 | -8.8 | 1.4 | 0.8 | 18.8 | 21.5 | 2.0 | 26.8 | 26.8 | 26.8 | 26.9 | 27.0 | 26.9 | 26.7 |
| 5700.00 | 21.6 | -29.9 | -9.0 | -9.0 | 1.4 | 0.8 | 18.6 | 21.3 | 2.0 | 26.5 | 27.0 | 27.0 | 27.1 | 27.1 | 27.1 | 26.9 |
| 5800.00 | 21.7 | -30.0 | -8.7 | -9.0 | 1.4 | 0.8 | 18.6 | 21.1 | 2.0 | 27.2 | 26.7 | 26.7 | 27.0 | 27.0 | 27.0 | 26.9 |
| 5900.00 | 21.7 | -29.9 | -9.0 | -9.2 | 1.4 | 0.8 | 18.5 | 20.7 | 2.0 | 26.3 | 26.7 | 26.7 | 26.6 | 26.6 | 26.6 | 26.5 |
| 6000.00 | 21.8 | -30.2 | -8.7 | -9.1 | 1.4 | 0.8 | 18.4 | 20.3 | 2.0 | 25.2 | 25.6 | 25.4 | 25.4 | 25.4 | 25.4 | 25.1 |
| 6100.00 | 21.8 | -30.1 | -8.9 | -9.4 | 1.4 | 0.8 | 18.9 | 20.5 | 2.0 | 26.4 | 26.0 | 26.1 | 26.2 | 26.3 | 26.4 | 26.3 |
| 6200.00 | 21.9 | -30.2 | -8.6 | -9.3 | 1.4 | 0.8 | 19.1 | 20.5 | 2.0 | 25.9 | 25.9 | 25.7 | 25.8 | 25.9 | 26.0 | 25.9 |
| 6300.00 | 21.9 | -30.3 | -8.8 | -9.6 | 1.4 | 0.8 | 19.4 | 20.7 | 2.0 | 26.0 | 26.6 | 26.5 | 26.6 | 26.8 | 27.0 | 27.1 |
| 6400.00 | 22.0 | -30.5 | -8.5 | -9.5 | 1.4 | 0.8 | 19.6 | 20.8 | 2.0 | 26.2 | 26.4 | 26.4 | 26.5 | 26.7 | 26.9 | 27.1 |
| 6500.00 | 22.0 | -30.6 | -8.7 | -9.9 | 1.4 | 0.8 | 19.6 | 20.7 | 2.1 | 26.1 | 26.3 | 26.4 | 26.6 | 26.8 | 27.0 | 27.3 |
| 6600.00 | 22.0 | -30.9 | -8.4 | -9.8 | 1.5 | 0.8 | 19.8 | 20.9 | 2.0 | 26.5 | 26.1 | 26.4 | 26.6 | 26.9 | 27.1 | 27.3 |
| 6700.00 | 22.0 | -30.9 | -8.7 | -10.2 | 1.5 | 0.8 | 19.8 | 20.9 | 2.1 | 26.2 | 26.2 | 26.4 | 26.6 | 26.7 | 27.0 | 27.3 |
| 6800.00 | 22.0 | -31.3 | -8.5 | -10.2 | 1.5 | 0.9 | 19.9 | 20.9 | 2.1 | 26.3 | 26.6 | 26.6 | 26.7 | 27.0 | 27.3 | 27.6 |
| 6900.00 | 22.0 | -31.4 | -8.7 | -10.6 | 1.6 | 0.9 | 19.9 | 21.0 | 2.1 | 25.8 | 26.3 | 26.5 | 26.8 | 27.1 | 27.4 | 27.8 |
| 7000.00 | 22.0 | -31.8 | -8.5 | -10.7 | 1.6 | 0.9 | 20.0 | 21.0 | 2.2 | 26.1 | 26.1 | 26.2 | 26.4 | 26.7 | 27.0 | 27.4 |
| 7100.00 | 21.9 | -31.8 | -8.8 | -11.2 | 1.6 | 0.9 | 19.9 | 20.9 | 2.2 | 25.9 | 26.2 | 26.4 | 26.8 | 27.0 | 27.3 | 27.8 |
| 7200.00 | 21.9 | -32.4 | -8.5 | -11.4 | 1.7 | 0.9 | 20.0 | 20.9 | 2.2 | 26.3 | 26.2 | 26.4 | 26.6 | 26.9 | 27.3 | 27.7 |
| 7300.00 | 21.8 | -32.6 | -8.8 | -12.1 | 1.8 | 0.9 | 19.9 | 20.8 | 2.3 | 25.4 | 26.2 | 25.9 | 26.2 | 26.5 | 27.0 | 27.4 |
| 7400.00 | 21.7 | -33.1 | -8.5 | -12.3 | 1.9 | 1.0 | 19.9 | 20.8 | 2.3 | 25.9 | 26.2 | 25.8 | 26.2 | 26.6 | 27.0 | 27.4 |
| 7500.00 | 21.5 | -33.6 | -8.7 | -13.2 | 2.0 | 1.0 | 19.7 | 20.5 | 2.4 | 25.7 | 26.2 | 26.0 | 26.3 | 26.6 | 27.1 | 27.6 |
| 7600.00 | 21.3 | -34.4 | -8.2 | -13.4 | 2.2 | 1.0 | 19.6 | 20.3 | 2.5 | 26.2 | 26.3 | 26.2 | 26.4 | 26.7 | 27.1 | 27.5 |
| 7700.00 | 20.9 | -34.5 | -8.3 | -14.6 | 2.3 | 1.0 | 19.5 | 20.2 | 2.6 | 25.0 | 25.0 | 25.1 | 25.3 | 25.7 | 26.1 | 26.5 |
| 7800.00 | 20.6 | -35.7 | -7.6 | -14.8 | 2.7 | 1.1 | 19.3 | 20.0 | 2.7 | 25.2 | 25.3 | 25.7 | 26.0 | 26.4 | 26.9 | 27.4 |
| 7900.00 | 20.1 | -36.3 | -7.6 | -16.1 | 2.9 | 1.1 | 19.1 | 19.8 | 2.8 | 25.6 | 25.3 | 25.7 | 26.0 | 26.3 | 26.9 | 27.5 |
| 8000.00 | 19.5 | -37.6 | -6.7 | -15.4 | 3.4 | 1.2 | 18.9 | 19.5 | 2.9 | 24.7 | 24.8 | 25.1 | 25.4 | 25.9 | 26.5 | 27.0 |
| 8100.00 | 19.0 | -37.9 | -6.4 | -15.7 | 3.7 | 1.2 | 18.6 | 19.2 | 3.0 | 24.6 | 24.9 | 25.1 | 25.5 | 25.9 | 26.5 | 27.0 |
| 8200.00 | 18.0 | -39.8 | -5.5 | -13.9 | 4.6 | 1.2 | 18.2 | 18.7 | 3.2 | 24.2 | | 24.6 | 24.9 | 25.5 | 26.1 | 26.2 |
| 8300.00 | 17.3 | -40.0 | -5.2 | -13.2 | 4.9 | 1.2 | 17.9 | 18.4 | 3.4 | 24.4 | 24.6 | 24.9 | 25.3 | 25.8 | 26.5 | 26.5 |
| 8400.00 | 16.0 | -42.2 | -4.4 | -11.1 | 6.4 | 1.3 | 17.3 | 17.8 | 3.6 | 25.1 | 25.0 | 25.3 | 25.6 | 26.3 | 26.8 | 26.8 |
| 8500.00 | 15.2 | -42.4 | -4.0 | -10.2 | 6.6 | 1.3 | 16.7 | 17.2 | 3.8 | 23.6 | 23.5 | 24.3 | 24.8 | 25.6 | 25.8 | 24.2 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 37.6 | 37.6 | 37.4 | 37.2 | 37.0 | 36.8 | 36.6 |
| 6000.0 | 34.9 | 34.7 | 34.5 | 34.3 | 34.0 | 33.7 | 33.5 |
| 7000.0 | 44.5 | 44.4 | 44.2 | 44.0 | 43.8 | 43.6 | 43.6 |
| 8000.0 | 52.6 | 52.5 | 52.2 | 52.1 | 51.9 | 51.7 | 51.7 |
| 8500.0 | 60.6 | 60.3 | 60.1 | 59.9 | 59.7 | 59.6 | 60.0 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.2 | 1.1 | 0.9 | 3.6 |
| 300.00 | -2.4 | -2.5 | -6.6 | -12.0 | 1.0 | 0.7 | 2.5 |
| 400.00 | -1.8 | -1.9 | -9.3 | -14.1 | 1.0 | 0.6 | 2.1 |
| 500.00 | -1.5 | -1.5 | -12.0 | -15.7 | 1.0 | 0.5 | 2.0 |
| 600.00 | -1.3 | -1.4 | -14.9 | -16.9 | 1.0 | 0.5 | 1.3 |
| 700.00 | -1.2 | -1.3 | -18.1 | -17.7 | 1.0 | 0.5 | 1.4 |
| 800.00 | -1.2 | -1.3 | -22.0 | -17.8 | 1.0 | 0.4 | 1.6 |
| 900.00 | -1.2 | -1.3 | -26.9 | -17.6 | 1.0 | 0.4 | 1.5 |
| 1000.00 | -1.2 | -1.3 | -30.1 | -17.2 | 1.0 | 0.4 | 1.4 |
| 1100.00 | -1.2 | -1.3 | -26.4 | -16.9 | 1.0 | 0.4 | 1.5 |
| 1200.00 | -1.2 | -1.3 | -22.9 | -16.7 | 1.0 | 0.4 | 1.6 |
| 1300.00 | -1.2 | -1.3 | -20.5 | -16.2 | 1.0 | 0.4 | 1.3 |
| 1400.00 | -1.2 | -1.3 | -18.7 | -15.8 | 1.0 | 0.4 | 1.5 |
| 1500.00 | -1.3 | -1.4 | -17.3 | -15.5 | 1.0 | 0.5 | 1.5 |
| 1600.00 | -1.3 | -1.4 | -16.2 | -15.3 | 1.0 | 0.5 | 1.5 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.3 | 1.0 | 0.5 | 1.6 |
| 1800.00 | -1.4 | -1.5 | -14.7 | -15.2 | 1.0 | 0.5 | 1.6 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.0 | 1.0 | 0.5 | 1.7 |
| 2000.00 | -1.4 | -1.6 | -13.7 | -15.0 | 1.0 | 0.5 | 1.6 |
| 2100.00 | -1.5 | -1.7 | -13.5 | -15.2 | 1.0 | 0.5 | 1.7 |
| 2200.00 | -1.5 | -1.7 | -13.2 | -15.4 | 1.0 | 0.5 | 2.1 |
| 2300.00 | -1.5 | -1.8 | -13.1 | -15.6 | 1.0 | 0.6 | 2.0 |
| 2400.00 | -1.5 | -1.8 | -13.0 | -15.9 | 1.0 | 0.6 | 2.0 |
| 2500.00 | -1.6 | -1.9 | -13.0 | -16.3 | 1.1 | 0.6 | 2.0 |
| 2600.00 | -1.6 | -1.9 | -13.0 | -16.9 | 1.1 | 0.6 | 2.1 |
| 2700.00 | -1.6 | -2.0 | -13.1 | -17.6 | 1.1 | 0.6 | 2.2 |
| 2800.00 | -1.6 | -2.0 | -13.2 | -18.3 | 1.1 | 0.6 | 2.2 |
| 2900.00 | -1.6 | -2.1 | -13.4 | -19.1 | 1.1 | 0.6 | 2.1 |
| 3000.00 | -1.7 | -2.1 | -13.5 | -20.2 | 1.1 | 0.7 | 2.2 |
| 3100.00 | -1.7 | -2.1 | -13.6 | -21.6 | 1.1 | 0.7 | 2.5 |
| 3200.00 | -1.7 | -2.1 | -13.7 | -23.2 | 1.1 | 0.7 | 1.9 |
| 3300.00 | -1.7 | -2.1 | -13.8 | -24.8 | 1.1 | 0.7 | 2.1 |
| 3400.00 | -1.7 | -2.1 | -13.8 | -26.4 | 1.1 | 0.7 | 2.2 |
| 3500.00 | -1.7 | -2.1 | -13.8 | -27.2 | 1.1 | 0.7 | 2.2 |
| 3600.00 | -1.7 | -2.1 | -13.8 | -25.9 | 1.1 | 0.7 | 2.3 |
| 3700.00 | -1.7 | -2.1 | -13.7 | -23.7 | 1.1 | 0.7 | 2.2 |
| 3800.00 | -1.8 | -2.1 | -13.5 | -21.8 | 1.1 | 0.7 | 2.2 |
| 3900.00 | -1.8 | -2.1 | -13.3 | -20.2 | 1.1 | 0.7 | 2.2 |
| 4000.00 | -1.8 | -2.1 | -13.1 | -18.7 | 1.1 | 0.7 | 1.9 |
| 4100.00 | -1.8 | -2.2 | -12.8 | -17.3 | 1.1 | 0.7 | 2.2 |
| 4200.00 | -1.8 | -2.2 | -12.5 | -16.3 | 1.1 | 0.6 | 2.0 |
| 4300.00 | -1.9 | -2.2 | -12.3 | -15.4 | 1.1 | 0.6 | 2.1 |
| 4400.00 | -1.9 | -2.2 | -12.0 | -14.7 | 1.1 | 0.6 | 1.9 |
| 4500.00 | -1.9 | -2.3 | -11.8 | -14.0 | 1.1 | 0.6 | 2.2 |
| 4600.00 | -1.9 | -2.3 | -11.5 | -13.5 | 1.1 | 0.6 | 2.1 |
| 4700.00 | -1.9 | -2.3 | -11.4 | -13.0 | 1.1 | 0.6 | 2.6 |
| 4800.00 | -1.9 | -2.4 | -11.3 | -12.7 | 1.1 | 0.6 | 2.2 |
| 4900.00 | -2.0 | -2.4 | -11.2 | -12.4 | 1.1 | 0.6 | 2.0 |
| 5000.00 | -1.9 | -2.4 | -11.0 | -12.1 | 1.1 | 0.6 | 1.9 |
| 5100.00 | -2.0 | -2.4 | -11.0 | -11.9 | 1.1 | 0.6 | 2.2 |
| 5200.00 | -1.9 | -2.5 | -10.9 | -11.7 | 1.1 | 0.6 | 2.0 |
| 5300.00 | -1.9 | -2.4 | -11.0 | -11.7 | 1.1 | 0.6 | 2.2 |
| 5400.00 | -2.0 | -2.5 | -11.0 | -11.6 | 1.1 | 0.6 | 1.9 |
| 5500.00 | -1.9 | -2.5 | -11.0 | -11.4 | 1.1 | 0.6 | 2.2 |
| 5600.00 | -1.9 | -2.5 | -11.2 | -11.5 | 1.1 | 0.6 | 1.8 |
| 5700.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 1.8 |
| 5800.00 | -1.9 | -2.4 | -11.5 | -11.5 | 1.1 | 0.6 | 1.5 |
| 5900.00 | -1.8 | -2.4 | -11.8 | -11.8 | 1.1 | 0.6 | 1.3 |
| 6000.00 | -1.8 | -2.4 | -11.9 | -11.7 | 1.1 | 0.6 | 1.9 |
| 6100.00 | -1.8 | -2.4 | -12.3 | -11.9 | 1.1 | 0.6 | 2.2 |
| 6200.00 | -1.8 | -2.4 | -12.7 | -12.2 | 1.1 | 0.6 | 1.9 |
| 6300.00 | -1.7 | -2.4 | -12.9 | -12.3 | 1.1 | 0.6 | 2.2 |
| 6400.00 | -1.7 | -2.4 | -13.3 | -12.5 | 1.1 | 0.6 | 2.0 |
| 6500.00 | -1.7 | -2.4 | -13.6 | -12.6 | 1.1 | 0.6 | 1.4 |
| 6600.00 | -1.7 | -2.4 | -13.8 | -12.7 | 1.1 | 0.6 | 1.6 |
| 6700.00 | -1.6 | -2.4 | -14.3 | -13.1 | 1.1 | 0.6 | 1.9 |
| 6800.00 | -1.7 | -2.4 | -14.6 | -13.2 | 1.1 | 0.6 | 1.7 |
| 6900.00 | -1.6 | -2.4 | -14.6 | -13.2 | 1.1 | 0.6 | 1.7 |
| 7000.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 1.5 |
| 7100.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 1.8 |
| 7200.00 | -1.7 | -2.4 | -14.6 | -13.3 | 1.1 | 0.6 | 1.6 |
| 7300.00 | -1.8 | -2.5 | -14.4 | -13.1 | 1.1 | 0.6 | 1.9 |
| 7400.00 | -1.9 | -2.6 | -13.9 | -12.7 | 1.1 | 0.6 | 1.1 |
| 7500.00 | -1.9 | -2.6 | -13.4 | -12.5 | 1.1 | 0.6 | 2.1 |
| 7600.00 | -2.0 | -2.7 | -13.0 | -12.2 | 1.2 | 0.7 | 1.3 |
| 7700.00 | -2.1 | -2.8 | -12.2 | -11.6 | 1.2 | 0.7 | 1.6 |
| 7800.00 | -2.2 | -2.9 | -11.6 | -11.2 | 1.2 | 0.7 | 1.9 |
| 7900.00 | -2.4 | -3.1 | -11.0 | -10.6 | 1.2 | 0.7 | 2.0 |
| 8000.00 | -2.5 | -3.1 | -10.1 | -9.9 | 1.2 | 0.7 | 2.1 |

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 30.2 | 29.0 | 26.9 | 23.8 | 18.8 | 15.2 | 14.3 |
| 1000.0 | 32.2 | 31.0 | 29.0 | 25.6 | 19.7 | 14.5 | 15.6 |
| 2000.0 | 34.1 | 33.3 | 31.9 | 29.5 | 25.6 | 18.9 | 16.3 |
| 4000.0 | 34.6 | 34.3 | 33.5 | 32.1 | 29.7 | 25.6 | 19.8 |
| 6000.0 | 35.4 | 35.1 | 34.2 | 32.3 | 29.2 | 23.8 | 17.3 |
| 8000.0 | 35.9 | 35.7 | 34.6 | 32.9 | 29.9 | 24.3 | 17.1 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.8 | 70.0 | 68.5 | 65.3 | 57.3 | 46.5 | 46.0 |
| 1000.0 | 71.1 | 71.1 | 70.7 | 68.5 | 59.1 | 52.8 | 52.0 |
| 2000.0 | 70.9 | 70.6 | 70.2 | 69.3 | 66.7 | 58.0 | 51.4 |
| 4000.0 | 72.5 | 72.6 | 72.5 | 72.9 | 73.4 | 73.5 | 56.0 |
| 6000.0 | 72.6 | 72.5 | 72.3 | 71.9 | 70.9 | 66.2 | 56.8 |
| 8000.0 | 83.4 | 83.3 | 83.2 | 82.8 | 82.0 | 78.9 | 68.1 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 12.0 | 9.0 |
| 1000.0 | 11.6 | 9.4 |
| 2000.0 | 13.3 | 10.9 |
| 4000.0 | 15.3 | 12.8 |
| 6000.0 | 15.7 | 12.9 |
| 8000.0 | 15.6 | 12.3 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.4 | -19.9 | -17.3 | 1.1 | 0.7 | 2.9 |
| 5600.00 | -1.7 | -2.4 | -20.4 | -17.2 | 1.1 | 0.7 | 2.8 |
| 5700.00 | -1.7 | -2.4 | -20.2 | -16.9 | 1.1 | 0.7 | 2.9 |
| 5800.00 | -1.7 | -2.4 | -19.8 | -16.3 | 1.1 | 0.7 | 2.8 |
| 5900.00 | -1.7 | -2.5 | -18.9 | -15.8 | 1.1 | 0.7 | 2.8 |
| 6000.00 | -1.7 | -2.5 | -18.1 | -15.2 | 1.1 | 0.7 | 2.7 |
| 6100.00 | -1.7 | -2.5 | -17.0 | -14.5 | 1.1 | 0.7 | 2.7 |
| 6200.00 | -1.7 | -2.5 | -16.2 | -13.9 | 1.1 | 0.7 | 3.1 |
| 6300.00 | -1.8 | -2.6 | -15.2 | -13.2 | 1.1 | 0.7 | 2.8 |
| 6400.00 | -1.8 | -2.6 | -14.5 | -12.7 | 1.1 | 0.7 | 2.9 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.1 | 1.1 | 0.7 | 2.8 |
| 6600.00 | -1.9 | -2.7 | -13.0 | -11.6 | 1.1 | 0.7 | 2.8 |
| 6700.00 | -1.9 | -2.8 | -12.2 | -11.0 | 1.1 | 0.7 | 2.9 |
| 6800.00 | -2.0 | -2.9 | -11.6 | -10.6 | 1.1 | 0.7 | 3.0 |
| 6900.00 | -2.0 | -2.9 | -11.0 | -10.1 | 1.1 | 0.7 | 2.9 |
| 7000.00 | -2.1 | -3.0 | -10.4 | -9.7 | 1.1 | 0.7 | 3.2 |
| 7100.00 | -2.2 | -3.1 | -9.8 | -9.2 | 1.1 | 0.7 | 3.0 |
| 7200.00 | -2.3 | -3.2 | -9.3 | -8.8 | 1.1 | 0.6 | 3.3 |
| 7300.00 | -2.5 | -3.3 | -8.8 | -8.4 | 1.1 | 0.6 | 3.2 |
| 7400.00 | -2.6 | -3.4 | -8.3 | -8.0 | 1.1 | 0.6 | 3.4 |
| 7500.00 | -2.7 | -3.6 | -7.8 | -7.5 | 1.2 | 0.6 | 3.0 |
| 7600.00 | -2.9 | -3.7 | -7.4 | -7.2 | 1.2 | 0.6 | 3.2 |
| 7700.00 | -3.1 | -3.9 | -6.9 | -6.8 | 1.2 | 0.6 | 3.3 |
| 7800.00 | -3.2 | -4.1 | -6.5 | -6.5 | 1.2 | 0.6 | 3.1 |
| 7900.00 | -3.4 | -4.3 | -6.1 | -6.1 | 1.2 | 0.6 | 3.8 |
| 8000.00 | -3.6 | -4.4 | -5.8 | -5.8 | 1.2 | 0.6 | 4.0 |
| 8100.00 | -3.8 | -4.6 | -5.3 | -5.4 | 1.2 | 0.6 | 4.4 |
| 8200.00 | -4.1 | -4.8 | -5.1 | -5.2 | 1.2 | 0.6 | 4.0 |
| 8300.00 | -4.3 | -5.0 | -4.7 | -4.8 | 1.2 | 0.6 | 4.1 |
| 8400.00 | -4.5 | -5.3 | -4.5 | -4.7 | 1.2 | 0.6 | 4.0 |
| 8500.00 | -4.7 | -5.4 | -4.2 | -4.4 | 1.2 | 0.6 | 4.2 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 14.7 | 11.7 |
| 6000.0 | 15.3 | 12.3 |
| 7000.0 | 16.8 | 13.3 |
| 8000.0 | 17.6 | 12.2 |
| 8500.0 | 16.4 | 10.9 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.6 | 70.6 | 70.5 | 70.2 | 69.1 | 65.2 | 58.9 | 36.6 | 36.5 | 35.5 | 34.9 | 32.5 | 28.7 | 22.2 |
| 6000.0 | 75.9 | 75.8 | 75.7 | 75.4 | 75.0 | 73.6 | 67.6 | 37.5 | 37.1 | 36.4 | 34.4 | 31.4 | 26.2 | 17.7 |
| 7000.0 | 86.5 | 86.4 | 86.2 | 85.8 | 85.0 | 82.5 | 73.8 | 37.4 | 37.3 | 36.7 | 33.7 | 31.0 | 26.8 | 20.9 |
| 8000.0 | 83.7 | 83.7 | 83.6 | 83.4 | 82.8 | 81.1 | 73.9 | 37.5 | 37.2 | 36.2 | 35.6 | 33.6 | 30.1 | 23.4 |
| 8500.0 | 92.8 | 92.8 | 92.8 | 92.7 | 92.1 | 89.7 | 105.5 | 37.0 | 36.0 | 34.3 | 31.6 | 26.8 | 17.7 | 15.7 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 99 mA, $I_{EN}$ = 2.59 mA @ Temperature = + 85°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.0 | -33.2 | -1.9 | -4.8 | 1.5 | 1.0 | 20.9 | 22.0 | 5.3 | 34.8 | 32.6 | 33.2 | 31.8 | 32.8 | 33.1 | 32.5 |
| 300.00 | 19.8 | -28.3 | -5.9 | -8.9 | 1.2 | 0.8 | 21.2 | 22.3 | 2.9 | 36.9 | 31.4 | 34.0 | 32.8 | 34.0 | 33.8 | 33.9 |
| 400.00 | 21.3 | -26.9 | -12.2 | -15.1 | 1.2 | 0.7 | 21.8 | 22.8 | 2.2 | 34.3 | 33.5 | 35.1 | 34.7 | 35.0 | 35.0 | 35.0 |
| 500.00 | 21.6 | -26.5 | -18.0 | -18.3 | 1.2 | 0.7 | 22.1 | 22.9 | 1.9 | 34.7 | 34.6 | 35.4 | 34.7 | 34.9 | 34.9 | 35.0 |
| 600.00 | 21.7 | -26.4 | -18.4 | -17.5 | 1.1 | 0.7 | 22.4 | 23.0 | 1.7 | 35.8 | 36.5 | 36.1 | 35.2 | 36.2 | 35.9 | 35.9 |
| 700.00 | 21.7 | -26.5 | -16.7 | -16.4 | 1.1 | 0.6 | 22.5 | 23.2 | 1.6 | 34.2 | 34.1 | 35.5 | 34.8 | 35.5 | 35.5 | 35.4 |
| 800.00 | 21.7 | -26.5 | -15.7 | -16.0 | 1.1 | 0.6 | 22.6 | 23.3 | 1.6 | 35.9 | 35.6 | 35.4 | 34.7 | 35.4 | 35.3 | 35.0 |
| 900.00 | 21.7 | -26.5 | -15.2 | -15.9 | 1.1 | 0.7 | 22.7 | 23.4 | 1.6 | 33.1 | 34.3 | 36.2 | 35.1 | 35.6 | 35.7 | 35.2 |
| 1000.00 | 21.7 | -26.6 | -15.0 | -16.0 | 1.1 | 0.7 | 22.8 | 23.5 | 1.6 | 39.1 | 34.9 | 35.6 | 34.9 | 35.8 | 36.1 | 35.8 |
| 1100.00 | 21.7 | -26.6 | -15.0 | -16.5 | 1.1 | 0.7 | 22.7 | 23.5 | 1.6 | 33.1 | 34.6 | 34.7 | 34.6 | 35.7 | 35.6 | 35.3 |
| 1200.00 | 21.7 | -26.6 | -15.2 | -17.1 | 1.1 | 0.7 | 22.8 | 23.6 | 1.6 | 34.8 | 35.1 | 35.7 | 33.6 | 35.3 | 35.1 | 35.0 |
| 1300.00 | 21.7 | -26.7 | -15.4 | -17.9 | 1.2 | 0.7 | 22.8 | 23.6 | 1.6 | 34.9 | 34.9 | 34.3 | 34.2 | 34.6 | 34.6 | 34.5 |
| 1400.00 | 21.7 | -26.7 | -15.7 | -18.9 | 1.2 | 0.7 | 22.8 | 23.5 | 1.6 | 34.8 | 35.6 | 35.3 | 34.6 | 35.2 | 35.5 | 35.0 |
| 1500.00 | 21.7 | -26.7 | -15.9 | -20.3 | 1.2 | 0.7 | 22.7 | 23.6 | 1.6 | 31.1 | 32.9 | 33.4 | 33.3 | 33.9 | 34.1 | 33.7 |
| 1600.00 | 21.7 | -26.8 | -16.0 | -21.9 | 1.2 | 0.7 | 22.7 | 23.7 | 1.7 | 33.9 | 34.1 | 33.4 | 33.1 | 34.4 | 34.3 | 34.2 |
| 1700.00 | 21.8 | -26.9 | -16.0 | -23.3 | 1.2 | 0.7 | 22.8 | 23.8 | 1.7 | 31.1 | 32.4 | 33.2 | 33.0 | 34.0 | 34.0 | 33.6 |
| 1800.00 | 21.8 | -26.9 | -16.0 | -25.4 | 1.2 | 0.7 | 22.7 | 23.7 | 1.7 | 31.3 | 32.8 | 33.9 | 32.0 | 33.7 | 33.7 | 33.5 |
| 1900.00 | 21.8 | -26.9 | -15.9 | -27.2 | 1.2 | 0.7 | 22.6 | 23.7 | 1.8 | 33.0 | 34.0 | 33.2 | 32.3 | 32.9 | 33.0 | 32.6 |
| 2000.00 | 21.8 | -27.0 | -15.6 | -27.0 | 1.2 | 0.7 | 22.3 | 23.6 | 1.8 | 31.9 | 33.1 | 33.5 | 32.0 | 33.2 | 33.3 | 33.2 |
| 2100.00 | 21.8 | -27.1 | -15.1 | -25.6 | 1.2 | 0.7 | 22.5 | 23.8 | 1.8 | 32.2 | 33.7 | 32.7 | 32.6 | 33.3 | 32.9 | 32.9 |
| 2200.00 | 21.8 | -27.0 | -14.6 | -23.6 | 1.2 | 0.7 | 22.4 | 23.7 | 1.8 | 32.4 | 35.2 | 33.7 | 32.4 | 33.1 | 33.5 | 33.4 |
| 2300.00 | 21.8 | -27.2 | -14.0 | -21.5 | 1.2 | 0.7 | 22.4 | 23.9 | 1.8 | 33.6 | 31.8 | 32.7 | 32.2 | 33.1 | 32.9 | 32.9 |
| 2400.00 | 21.8 | -27.3 | -13.4 | -19.9 | 1.2 | 0.7 | 22.1 | 23.8 | 1.9 | 30.0 | 32.6 | 32.1 | 31.3 | 31.9 | 31.7 | 31.6 |
| 2500.00 | 21.8 | -27.4 | -12.9 | -18.6 | 1.2 | 0.8 | 21.9 | 23.8 | 1.9 | 30.7 | 32.4 | 32.1 | 30.8 | 31.6 | 31.6 | 31.4 |
| 2600.00 | 21.7 | -27.5 | -12.4 | -17.5 | 1.2 | 0.8 | 21.7 | 23.7 | 1.9 | 31.3 | 31.6 | 31.4 | 30.6 | 31.5 | 31.4 | 31.2 |
| 2700.00 | 21.7 | -27.6 | -12.0 | -16.6 | 1.2 | 0.8 | 21.4 | 23.4 | 2.0 | 34.0 | 31.2 | 32.1 | 30.8 | 32.0 | 31.8 | 31.7 |
| 2800.00 | 21.7 | -27.7 | -11.5 | -15.8 | 1.2 | 0.8 | 21.4 | 23.3 | 2.0 | 30.1 | 31.7 | 31.3 | 30.6 | 31.3 | 31.4 | 31.2 |
| 2900.00 | 21.7 | -27.9 | -11.1 | -15.0 | 1.2 | 0.8 | 21.1 | 23.1 | 2.0 | 30.3 | | 30.6 | 29.9 | 30.5 | 30.4 | 30.2 |
| 3000.00 | 21.6 | -27.9 | -10.7 | -14.4 | 1.2 | 0.8 | 21.2 | 23.2 | 2.0 | 30.3 | 30.0 | 30.5 | 29.5 | 30.5 | 30.4 | 30.2 |
| 3100.00 | 21.6 | -28.0 | -10.4 | -14.0 | 1.2 | 0.8 | 20.9 | 23.2 | 2.0 | 30.1 | 30.5 | 30.2 | 28.9 | 30.0 | 29.8 | 29.7 |
| 3200.00 | 21.6 | -28.1 | -10.1 | -13.6 | 1.2 | 0.8 | 21.1 | 23.3 | 2.0 | 29.4 | 31.3 | 30.5 | 29.2 | 30.4 | 30.3 | 30.1 |
| 3300.00 | 21.6 | -28.0 | -9.9 | -13.5 | 1.2 | 0.8 | 20.9 | 23.1 | 2.0 | 29.0 | 30.8 | 30.2 | 29.3 | 30.1 | 30.2 | 30.0 |
| 3400.00 | 21.6 | -28.1 | -9.8 | -13.3 | 1.2 | 0.8 | 20.8 | 23.0 | 2.1 | 30.5 | 30.2 | 30.5 | 29.5 | 30.5 | 30.6 | 30.5 |
| 3500.00 | 21.6 | -28.2 | -9.7 | -13.3 | 1.2 | 0.8 | 20.9 | 23.0 | 2.1 | 30.5 | 29.7 | 29.8 | 28.6 | 29.9 | 29.9 | 29.7 |
| 3600.00 | 21.6 | -28.1 | -9.7 | -13.4 | 1.2 | 0.8 | 20.8 | 22.9 | 2.0 | 29.6 | 29.5 | 29.9 | 28.7 | 29.7 | 29.8 | 29.6 |
| 3700.00 | 21.7 | -28.2 | -9.7 | -13.5 | 1.2 | 0.8 | 21.1 | 23.1 | 2.0 | 29.4 | 30.7 | 31.2 | 29.5 | 30.6 | 30.8 | 30.8 |
| 3800.00 | 21.7 | -28.2 | -9.8 | -13.8 | 1.2 | 0.8 | 21.1 | 23.1 | 2.0 | 28.5 | 30.9 | 29.9 | 28.9 | 29.7 | 29.8 | 29.7 |
| 3900.00 | 21.7 | -28.3 | -9.9 | -14.1 | 1.2 | 0.8 | 21.2 | 23.1 | 1.9 | 30.8 | 30.8 | 30.1 | 28.7 | 30.0 | 30.0 | 30.0 |
| 4000.00 | 21.8 | -28.3 | -10.0 | -14.4 | 1.2 | 0.8 | 21.1 | 23.2 | 1.9 | 30.6 | 30.5 | 30.2 | 29.0 | 30.2 | 30.3 | 30.5 |
| 4100.00 | 21.8 | -28.4 | -10.4 | -15.0 | 1.3 | 0.8 | 21.1 | 23.2 | 1.9 | 29.7 | 29.9 | 29.8 | 28.8 | 29.9 | 29.8 | 30.1 |
| 4200.00 | 21.9 | -28.4 | -10.6 | -15.6 | 1.2 | 0.8 | 21.2 | 23.2 | 1.9 | 29.8 | 29.7 | 29.4 | 28.8 | 29.8 | 29.8 | 30.0 |
| 4300.00 | 22.0 | -28.4 | -10.9 | -16.0 | 1.3 | 0.8 | 21.1 | 23.1 | 1.9 | 29.8 | 29.7 | 29.7 | 28.9 | 30.0 | 30.0 | 30.2 |
| 4400.00 | 22.0 | -28.4 | -11.4 | -16.8 | 1.3 | 0.8 | 21.0 | 23.1 | 1.8 | 28.5 | 29.5 | 29.7 | 28.6 | 29.6 | 29.6 | 29.8 |
| 4500.00 | 22.1 | -28.5 | -11.7 | -17.6 | 1.3 | 0.8 | 20.8 | 23.0 | 1.9 | 28.4 | 29.1 | 29.5 | 28.3 | 29.6 | 29.6 | 29.7 |
| 4600.00 | 22.1 | -28.6 | -12.2 | -18.4 | 1.3 | 0.8 | 20.5 | 22.9 | 1.9 | 28.8 | 29.2 | 29.3 | 28.3 | 29.3 | 29.4 | 29.5 |
| 4700.00 | 22.2 | -28.5 | -12.8 | -19.4 | 1.3 | 0.8 | 20.6 | 23.0 | 1.9 | 28.5 | 28.8 | 28.9 | 27.9 | 29.0 | 28.9 | 29.2 |
| 4800.00 | 22.3 | -28.6 | -13.1 | -19.8 | 1.3 | 0.8 | 20.9 | 23.1 | 1.9 | 28.9 | 29.4 | 29.3 | 28.3 | 29.4 | 29.2 | 29.7 |
| 4900.00 | 22.3 | -28.7 | -13.9 | -20.6 | 1.3 | 0.8 | 20.7 | 22.8 | 1.9 | 28.3 | 28.9 | 28.9 | 27.7 | 28.9 | 28.6 | 29.0 |
| 5000.00 | 22.3 | -28.7 | -14.3 | -21.8 | 1.3 | 0.8 | 20.6 | 22.7 | 1.9 | 27.7 | 28.7 | 28.5 | 27.4 | 28.4 | 28.3 | 28.6 |
| 5100.00 | 22.4 | -28.8 | -14.7 | -21.9 | 1.3 | 0.8 | 21.0 | 22.8 | 1.9 | 27.9 | 28.7 | 28.1 | 27.1 | 28.3 | 28.6 | 28.7 |
| 5200.00 | 22.4 | -28.9 | -15.4 | -22.7 | 1.3 | 0.8 | 21.0 | 22.8 | 1.9 | 28.0 | 28.7 | 28.3 | 27.4 | 28.4 | 28.3 | 29.0 |
| 5300.00 | 22.5 | -28.9 | -15.2 | -22.5 | 1.3 | 0.8 | 20.7 | 22.6 | 1.9 | 27.3 | 29.0 | 28.1 | 27.1 | 28.3 | 28.2 | 28.8 |
| 5400.00 | 22.5 | -29.2 | -15.2 | -22.1 | 1.3 | 0.8 | 20.2 | 22.4 | 1.9 | 27.1 | 28.2 | 28.3 | 27.3 | 28.3 | 28.4 | 28.6 |
| 5500.00 | 22.5 | -29.1 | -15.3 | -23.0 | 1.3 | 0.8 | 19.8 | 22.1 | 1.9 | 26.4 | 27.8 | 27.5 | 26.5 | 27.6 | 27.6 | 27.7 |
| 5600.00 | 22.5 | -29.2 | -14.1 | -21.3 | 1.3 | 0.8 | 19.2 | 21.7 | 1.9 | 27.2 | 27.8 | 27.6 | 26.3 | 27.7 | 27.6 | 27.7 |
| 5700.00 | 22.4 | -29.5 | -13.7 | -20.4 | 1.4 | 0.8 | 19.1 | 21.3 | 1.9 | 26.3 | 27.7 | 26.9 | 25.8 | 26.7 | 26.6 | 26.7 |
| 5800.00 | 22.5 | -29.5 | -13.0 | -20.3 | 1.4 | 0.8 | 19.1 | 21.1 | 1.9 | 26.2 | 27.1 | 26.7 | 25.5 | 26.5 | 26.4 | 26.6 |
| 5900.00 | 22.4 | -29.9 | -11.5 | -18.2 | 1.4 | 0.9 | 19.1 | 20.8 | 2.0 | 26.1 | 26.9 | 26.7 | 25.5 | 26.5 | 26.5 | 26.7 |
| 6000.00 | 22.2 | -29.9 | -11.3 | -18.1 | 1.4 | 0.9 | 19.0 | 20.4 | 2.0 | 25.6 | 26.9 | 26.6 | 24.8 | 26.1 | 26.1 | 26.2 |
| 6100.00 | 22.3 | -29.9 | -10.1 | -16.6 | 1.4 | 0.9 | 19.1 | 20.4 | 2.1 | 25.4 | 26.7 | 26.7 | 25.4 | 26.4 | 26.4 | 26.7 |
| 6200.00 | 22.1 | -30.6 | -9.0 | -15.0 | 1.4 | 0.9 | 19.1 | 20.2 | 2.1 | 25.6 | 25.9 | 26.3 | 24.6 | 26.1 | 26.1 | 26.4 |
| 6300.00 | 22.0 | -30.6 | -8.7 | -14.6 | 1.4 | 0.9 | 19.1 | 20.1 | 2.2 | 24.9 | 25.9 | 25.8 | 23.9 | 25.6 | 25.6 | 26.0 |
| 6400.00 | 21.9 | -31.0 | -7.6 | -13.2 | 1.5 | 1.0 | 19.0 | 20.0 | 2.2 | 25.6 | 26.3 | 26.2 | 24.3 | 26.0 | 26.1 | 26.5 |
| 6500.00 | 21.6 | -31.5 | -7.0 | -12.3 | 1.5 | 1.0 | 19.0 | 19.9 | 2.2 | 24.9 | 25.5 | 25.9 | 23.9 | 25.7 | 25.7 | 26.0 |
| 6600.00 | 21.5 | -31.8 | -6.4 | -11.7 | 1.5 | 1.0 | 19.0 | 19.9 | 2.3 | 24.4 | 25.5 | 25.6 | 23.5 | 25.4 | 24.9 | 25.6 |
| 6700.00 | 21.2 | -32.4 | -5.6 | -10.5 | 1.6 | 1.0 | 18.8 | 19.6 | 2.3 | 25.1 | 25.4 | 25.7 | 23.7 | 25.6 | 25.1 | 25.7 |
| 6800.00 | 20.8 | -33.2 | -5.2 | -9.9 | 1.7 | 1.1 | 18.6 | 19.4 | 2.3 | 24.8 | 26.3 | 25.3 | 23.2 | 25.1 | 25.3 | 25.2 |
| 6900.00 | 20.5 | -33.6 | -4.8 | -9.3 | 1.7 | 1.1 | 18.4 | 19.2 | 2.4 | 24.6 | 24.3 | 24.9 | 22.8 | 24.8 | 25.2 | 24.9 |
| 7000.00 | 20.1 | -34.6 | -4.3 | -8.6 | 1.8 | 1.1 | 18.2 | 18.9 | 2.4 | 24.5 | 25.1 | 24.9 | 22.6 | 24.7 | 24.7 | 24.7 |
| 7100.00 | 19.5 | -35.7 | -4.1 | -8.2 | 2.1 | 1.1 | 17.9 | 18.5 | 2.4 | 25.0 | 25.1 | 25.1 | 22.7 | 24.8 | 24.8 | 24.7 |
| 7200.00 | 19.1 | -36.5 | -3.8 | -7.7 | 2.2 | 1.1 | 17.5 | 18.1 | 2.4 | 24.7 | 24.7 | 24.6 | 23.0 | 24.5 | 24.5 | 24.2 |
| 7300.00 | 18.4 | -37.9 | -3.5 | -7.3 | 2.6 | 1.1 | 17.1 | 17.7 | 2.4 | 23.4 | 25.0 | 24.2 | 22.4 | 24.0 | 23.8 | 23.4 |
| 7400.00 | 17.7 | -39.1 | -3.5 | -7.1 | 3.1 | 1.1 | 16.7 | 17.3 | 2.5 | 24.1 | 24.8 | 24.5 | 23.0 | 24.5 | 24.4 | 23.9 |
| 7500.00 | 17.1 | -40.6 | -3.4 | -6.8 | 3.7 | 1.1 | 16.2 | 16.7 | 2.5 | 23.9 | 24.1 | 23.7 | 22.1 | 23.5 | 23.2 | 22.4 |
| 7600.00 | 16.2 | -43.0 | -3.4 | -6.5 | 5.2 | 1.1 | 15.7 | 16.2 | 2.6 | 23.7 | 24.1 | 23.4 | 22.0 | 23.2 | 22.7 | 21.8 |
| 7700.00 | 15.5 | -43.7 | -3.5 | -6.4 | 6.1 | 1.1 | 15.1 | 15.6 | 2.6 | 23.1 | 23.3 | 22.6 | 21.1 | 22.4 | 21.9 | 20.7 |
| 7800.00 | 14.5 | -47.2 | -3.4 | -6.0 | 9.6 | 1.1 | 14.2 | 14.8 | 2.6 | 23.3 | 23.0 | 23.1 | 21.6 | 22.9 | 22.5 | 21.0 |
| 7900.00 | 13.1 | -48.2 | -3.7 | -5.8 | 12.8 | 1.1 | 13.2 | 13.7 | 2.8 | 21.2 | 21.6 | 21.1 | 19.7 | 20.3 | 18.8 | 15.3 |
| 8000.00 | 12.0 | -48.6 | -3.7 | -5.7 | 15.2 | 1.0 | 12.0 | 12.6 | 2.8 | 21.4 | 20.5 | 20.7 | 19.4 | 19.7 | 18.3 | 14.1 |

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 99 mA, $I_{EN}$ = 2.59 mA @ Temperature = + 85°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 45.9 | 45.8 | 45.8 | 45.7 | 45.6 | 45.4 | 45.1 |
| 1000.0 | 44.7 | 44.6 | 44.5 | 44.4 | 44.2 | 44.0 | 43.6 |
| 2000.0 | 42.5 | 42.3 | 42.2 | 42.0 | 41.8 | 41.6 | 41.5 |
| 4000.0 | 44.0 | 43.9 | 43.7 | 43.6 | 43.5 | 43.3 | 43.4 |
| 6000.0 | 34.1 | 33.9 | 33.7 | 33.5 | 33.3 | 33.0 | 32.9 |
| 8000.0 | 38.9 | 38.6 | 38.4 | 38.3 | 38.8 | 40.0 | 42.3 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 105 mA, $I_{EN}$ = 2.57 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.6 | -29.8 | -8.8 | -8.8 | 1.4 | 0.8 | 19.5 | 21.8 | 2.0 | 28.3 | 28.5 | 28.3 | 28.5 | 28.7 | 28.8 | 28.8 |
| 5600.00 | 21.7 | -29.9 | -8.6 | -8.9 | 1.4 | 0.8 | 19.1 | 21.5 | 2.0 | 27.5 | 27.4 | 27.1 | 27.2 | 27.3 | 27.5 | 27.3 |
| 5700.00 | 21.7 | -29.9 | -8.9 | -9.0 | 1.4 | 0.8 | 18.9 | 21.3 | 2.0 | 27.0 | 27.3 | 27.3 | 27.3 | 27.5 | 27.6 | 27.5 |
| 5800.00 | 21.8 | -30.0 | -8.6 | -9.0 | 1.4 | 0.8 | 18.9 | 21.1 | 2.0 | 26.7 | 27.6 | 27.1 | 27.3 | 27.4 | 27.5 | 27.5 |
| 5900.00 | 21.8 | -30.0 | -8.9 | -9.2 | 1.4 | 0.8 | 18.8 | 20.7 | 2.0 | 27.3 | 26.6 | 26.8 | 26.9 | 27.1 | 27.1 | 27.1 |
| 6000.00 | 21.9 | -30.1 | -8.6 | -9.1 | 1.4 | 0.8 | 18.7 | 20.4 | 2.0 | 26.1 | 25.8 | 25.8 | 25.8 | 25.9 | 25.9 | 25.7 |
| 6100.00 | 21.9 | -30.1 | -8.8 | -9.4 | 1.4 | 0.8 | 19.1 | 20.6 | 2.0 | 26.3 | 26.0 | 26.5 | 26.5 | 26.7 | 26.8 | 26.9 |
| 6200.00 | 22.0 | -30.2 | -8.5 | -9.3 | 1.4 | 0.8 | 19.3 | 20.6 | 2.0 | 25.6 | 25.8 | 26.1 | 26.1 | 26.3 | 26.5 | 26.6 |
| 6300.00 | 22.0 | -30.2 | -8.7 | -9.5 | 1.4 | 0.8 | 19.6 | 20.8 | 2.0 | 26.8 | 26.8 | 26.8 | 27.0 | 27.1 | 27.4 | 27.7 |
| 6400.00 | 22.1 | -30.6 | -8.3 | -9.4 | 1.4 | 0.8 | 19.8 | 20.9 | 2.0 | 26.4 | 26.3 | 26.6 | 26.7 | 27.0 | 27.3 | 27.6 |
| 6500.00 | 22.1 | -30.6 | -8.5 | -9.8 | 1.4 | 0.8 | 19.8 | 20.8 | 2.0 | 26.2 | 26.4 | 26.8 | 26.9 | 27.1 | 27.5 | 27.7 |
| 6600.00 | 22.1 | -30.9 | -8.3 | -9.7 | 1.4 | 0.8 | 20.0 | 21.0 | 2.0 | 26.1 | 26.6 | 26.8 | 26.8 | 27.2 | 27.5 | 27.8 |
| 6700.00 | 22.1 | -31.0 | -8.6 | -10.1 | 1.5 | 0.8 | 20.0 | 21.0 | 2.1 | 25.9 | 26.4 | 26.5 | 26.7 | 27.1 | 27.4 | 27.8 |
| 6800.00 | 22.1 | -31.3 | -8.3 | -10.0 | 1.5 | 0.9 | 20.1 | 21.1 | 2.1 | 26.5 | 27.1 | 26.7 | 27.0 | 27.3 | 27.7 | 28.1 |
| 6900.00 | 22.1 | -31.4 | -8.5 | -10.4 | 1.5 | 0.9 | 20.2 | 21.1 | 2.1 | 26.6 | 26.6 | 26.7 | 26.9 | 27.4 | 27.8 | 28.2 |
| 7000.00 | 22.1 | -31.7 | -8.3 | -10.5 | 1.6 | 0.9 | 20.2 | 21.1 | 2.1 | 26.1 | 26.2 | 26.3 | 26.6 | 27.0 | 27.4 | 27.8 |
| 7100.00 | 22.0 | -31.9 | -8.6 | -11.0 | 1.6 | 0.9 | 20.1 | 21.0 | 2.2 | 26.6 | 26.4 | 26.7 | 27.0 | 27.3 | 27.7 | 28.1 |
| 7200.00 | 22.0 | -32.4 | -8.3 | -11.1 | 1.7 | 0.9 | 20.1 | 21.0 | 2.2 | 26.0 | 26.5 | 26.5 | 26.8 | 27.1 | 27.6 | 28.1 |
| 7300.00 | 21.9 | -32.6 | -8.6 | -11.8 | 1.8 | 0.9 | 20.0 | 20.9 | 2.3 | 25.8 | 25.9 | 26.1 | 26.3 | 26.7 | 27.3 | 27.7 |
| 7400.00 | 21.8 | -33.4 | -8.3 | -12.0 | 1.9 | 1.0 | 20.1 | 20.9 | 2.3 | 25.7 | 25.8 | 26.1 | 26.4 | 26.8 | 27.3 | 27.8 |
| 7500.00 | 21.6 | -33.6 | -8.5 | -12.9 | 2.0 | 1.0 | 19.8 | 20.6 | 2.4 | 25.8 | 25.6 | 26.0 | 26.4 | 26.8 | 27.4 | 28.0 |
| 7600.00 | 21.4 | -34.4 | -8.0 | -13.1 | 2.2 | 1.0 | 19.7 | 20.4 | 2.5 | 26.2 | 26.0 | 26.2 | 26.5 | 26.9 | 27.4 | 27.9 |
| 7700.00 | 21.0 | -34.7 | -8.1 | -14.4 | 2.3 | 1.0 | 19.6 | 20.2 | 2.6 | 25.1 | 24.7 | 25.2 | 25.6 | 25.9 | 26.4 | 26.8 |
| 7800.00 | 20.6 | -36.0 | -7.4 | -14.6 | 2.7 | 1.1 | 19.5 | 20.1 | 2.7 | 25.8 | 25.7 | 25.9 | 26.2 | 26.6 | 27.2 | 27.7 |
| 7900.00 | 20.2 | -36.3 | -7.4 | -15.9 | 2.9 | 1.1 | 19.2 | 19.9 | 2.8 | 26.0 | 25.5 | 25.9 | 26.2 | 26.6 | 27.2 | 27.8 |
| 8000.00 | 19.6 | -37.7 | -6.5 | -15.4 | 3.4 | 1.2 | 19.0 | 19.6 | 2.9 | 24.9 | 24.8 | 25.1 | 25.5 | 26.1 | 26.8 | 27.3 |
| 8100.00 | 19.0 | -38.1 | -6.2 | -15.7 | 3.7 | 1.2 | 18.7 | 19.2 | 3.0 | 24.4 | 25.0 | 25.3 | 25.6 | 26.1 | 26.8 | 27.3 |
| 8200.00 | 18.0 | -40.1 | -5.3 | -14.0 | 4.7 | 1.2 | 18.3 | 18.8 | 3.3 | 24.2 | | 24.6 | 25.1 | 25.8 | 26.4 | 26.5 |
| 8300.00 | 17.4 | -40.2 | -5.0 | -13.3 | 4.9 | 1.3 | 17.9 | 18.4 | 3.4 | 24.7 | 24.8 | 24.8 | 25.4 | 26.0 | 26.7 | 26.8 |
| 8400.00 | 16.0 | -42.5 | -4.3 | -11.2 | 6.6 | 1.3 | 17.3 | 17.8 | 3.6 | 24.5 | 24.9 | 25.3 | 25.9 | 26.5 | 27.2 | 27.1 |
| 8500.00 | 15.2 | -43.0 | -3.9 | -10.3 | 7.1 | 1.3 | 16.7 | 17.2 | 3.8 | 23.9 | 23.9 | 24.4 | 25.1 | 25.9 | 26.1 | 24.4 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 37.6 | 37.6 | 37.5 | 37.3 | 37.2 | 37.0 | 37.0 |
| 6000.0 | 34.8 | 34.7 | 34.5 | 34.3 | 34.1 | 33.9 | 33.8 |
| 7000.0 | 44.4 | 44.3 | 44.2 | 44.0 | 43.8 | 43.7 | 43.7 |
| 8000.0 | 52.6 | 52.5 | 52.2 | 52.1 | 51.9 | 51.8 | 51.9 |
| 8500.0 | 60.5 | 60.4 | 60.2 | 60.0 | 59.8 | 59.9 | 60.3 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.2 | 1.1 | 0.9 | 3.7 |
| 300.00 | -2.4 | -2.5 | -6.6 | -12.0 | 1.0 | 0.7 | 2.4 |
| 400.00 | -1.8 | -1.9 | -9.3 | -14.1 | 1.0 | 0.6 | 2.1 |
| 500.00 | -1.5 | -1.5 | -12.0 | -15.7 | 1.0 | 0.5 | 2.0 |
| 600.00 | -1.3 | -1.4 | -14.9 | -16.9 | 1.0 | 0.5 | 1.4 |
| 700.00 | -1.2 | -1.3 | -18.1 | -17.7 | 1.0 | 0.5 | 1.4 |
| 800.00 | -1.2 | -1.3 | -22.0 | -17.8 | 1.0 | 0.4 | 1.6 |
| 900.00 | -1.2 | -1.3 | -26.8 | -17.6 | 1.0 | 0.4 | 1.4 |
| 1000.00 | -1.2 | -1.3 | -30.1 | -17.2 | 1.0 | 0.4 | 1.3 |
| 1100.00 | -1.2 | -1.3 | -26.4 | -16.9 | 1.0 | 0.4 | 1.4 |
| 1200.00 | -1.2 | -1.3 | -22.9 | -16.6 | 1.0 | 0.4 | 1.5 |
| 1300.00 | -1.2 | -1.3 | -20.5 | -16.2 | 1.0 | 0.4 | 1.3 |
| 1400.00 | -1.2 | -1.4 | -18.7 | -15.8 | 1.0 | 0.4 | 1.4 |
| 1500.00 | -1.3 | -1.4 | -17.3 | -15.5 | 1.0 | 0.5 | 1.8 |
| 1600.00 | -1.3 | -1.4 | -16.2 | -15.3 | 1.0 | 0.5 | 1.7 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.3 | 1.0 | 0.5 | 1.4 |
| 1800.00 | -1.4 | -1.5 | -14.7 | -15.2 | 1.0 | 0.5 | 1.6 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 1.7 |
| 2000.00 | -1.4 | -1.6 | -13.7 | -15.0 | 1.0 | 0.5 | 2.0 |
| 2100.00 | -1.5 | -1.7 | -13.5 | -15.2 | 1.0 | 0.5 | 1.8 |
| 2200.00 | -1.5 | -1.7 | -13.2 | -15.4 | 1.0 | 0.5 | 1.9 |
| 2300.00 | -1.5 | -1.8 | -13.1 | -15.6 | 1.0 | 0.6 | 1.9 |
| 2400.00 | -1.5 | -1.8 | -13.0 | -15.9 | 1.0 | 0.6 | 2.0 |
| 2500.00 | -1.6 | -1.9 | -13.0 | -16.3 | 1.1 | 0.6 | 2.1 |
| 2600.00 | -1.6 | -1.9 | -13.0 | -16.9 | 1.1 | 0.6 | 2.1 |
| 2700.00 | -1.6 | -2.0 | -13.1 | -17.6 | 1.1 | 0.6 | 2.3 |
| 2800.00 | -1.6 | -2.0 | -13.2 | -18.3 | 1.1 | 0.6 | 2.0 |
| 2900.00 | -1.6 | -2.1 | -13.4 | -19.1 | 1.1 | 0.6 | 2.3 |
| 3000.00 | -1.7 | -2.1 | -13.5 | -20.2 | 1.1 | 0.7 | 2.2 |
| 3100.00 | -1.7 | -2.1 | -13.6 | -21.6 | 1.1 | 0.7 | 2.3 |
| 3200.00 | -1.7 | -2.1 | -13.7 | -23.2 | 1.1 | 0.7 | 2.3 |
| 3300.00 | -1.7 | -2.1 | -13.8 | -24.8 | 1.1 | 0.7 | 2.1 |
| 3400.00 | -1.7 | -2.1 | -13.8 | -26.3 | 1.1 | 0.7 | 2.4 |
| 3500.00 | -1.7 | -2.1 | -13.8 | -27.2 | 1.1 | 0.7 | 2.2 |
| 3600.00 | -1.7 | -2.1 | -13.8 | -25.8 | 1.1 | 0.7 | 2.2 |
| 3700.00 | -1.7 | -2.1 | -13.7 | -23.7 | 1.1 | 0.7 | 2.1 |
| 3800.00 | -1.8 | -2.1 | -13.5 | -21.7 | 1.1 | 0.7 | 2.4 |
| 3900.00 | -1.8 | -2.1 | -13.3 | -20.1 | 1.1 | 0.7 | 2.4 |
| 4000.00 | -1.8 | -2.1 | -13.1 | -18.6 | 1.1 | 0.7 | 2.1 |
| 4100.00 | -1.8 | -2.2 | -12.8 | -17.3 | 1.1 | 0.7 | 2.2 |
| 4200.00 | -1.8 | -2.2 | -12.5 | -16.2 | 1.1 | 0.6 | 2.1 |
| 4300.00 | -1.9 | -2.2 | -12.3 | -15.4 | 1.1 | 0.6 | 2.2 |
| 4400.00 | -1.9 | -2.2 | -12.0 | -14.7 | 1.1 | 0.6 | 1.9 |
| 4500.00 | -1.9 | -2.3 | -11.7 | -14.0 | 1.1 | 0.6 | 2.3 |
| 4600.00 | -1.9 | -2.3 | -11.5 | -13.4 | 1.1 | 0.6 | 2.0 |
| 4700.00 | -1.9 | -2.3 | -11.4 | -13.0 | 1.1 | 0.6 | 2.4 |
| 4800.00 | -1.9 | -2.4 | -11.3 | -12.7 | 1.1 | 0.6 | 2.0 |
| 4900.00 | -2.0 | -2.4 | -11.2 | -12.4 | 1.1 | 0.6 | 2.4 |
| 5000.00 | -2.0 | -2.4 | -11.0 | -12.1 | 1.1 | 0.6 | 2.2 |
| 5100.00 | -1.9 | -2.4 | -11.0 | -11.9 | 1.1 | 0.6 | 1.9 |
| 5200.00 | -2.0 | -2.5 | -10.9 | -11.7 | 1.1 | 0.6 | 2.1 |
| 5300.00 | -1.9 | -2.5 | -11.0 | -11.7 | 1.1 | 0.6 | 1.9 |
| 5400.00 | -2.0 | -2.5 | -11.0 | -11.6 | 1.1 | 0.6 | 1.9 |
| 5500.00 | -1.9 | -2.5 | -11.0 | -11.4 | 1.1 | 0.6 | 2.0 |
| 5600.00 | -1.9 | -2.5 | -11.2 | -11.5 | 1.1 | 0.6 | 1.9 |
| 5700.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 2.0 |
| 5800.00 | -1.9 | -2.4 | -11.5 | -11.5 | 1.1 | 0.6 | 1.7 |
| 5900.00 | -1.8 | -2.4 | -11.8 | -11.8 | 1.1 | 0.6 | 1.4 |
| 6000.00 | -1.8 | -2.4 | -11.9 | -11.7 | 1.1 | 0.6 | 2.0 |
| 6100.00 | -1.8 | -2.4 | -12.3 | -11.9 | 1.1 | 0.6 | 2.1 |
| 6200.00 | -1.8 | -2.4 | -12.7 | -12.2 | 1.1 | 0.6 | 1.7 |
| 6300.00 | -1.7 | -2.4 | -12.9 | -12.2 | 1.1 | 0.6 | 1.7 |
| 6400.00 | -1.7 | -2.4 | -13.3 | -12.5 | 1.1 | 0.6 | 1.7 |
| 6500.00 | -1.7 | -2.4 | -13.6 | -12.6 | 1.1 | 0.6 | 1.6 |
| 6600.00 | -1.7 | -2.4 | -13.8 | -12.7 | 1.1 | 0.6 | 1.8 |
| 6700.00 | -1.6 | -2.4 | -14.3 | -13.0 | 1.1 | 0.6 | 2.1 |
| 6800.00 | -1.7 | -2.4 | -14.6 | -13.1 | 1.1 | 0.6 | 1.9 |
| 6900.00 | -1.6 | -2.4 | -14.6 | -13.1 | 1.1 | 0.6 | 1.6 |
| 7000.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 1.8 |
| 7100.00 | -1.7 | -2.4 | -14.7 | -13.3 | 1.1 | 0.6 | 1.9 |
| 7200.00 | -1.7 | -2.4 | -14.6 | -13.3 | 1.1 | 0.6 | 2.0 |
| 7300.00 | -1.8 | -2.5 | -14.4 | -13.1 | 1.1 | 0.6 | 2.2 |
| 7400.00 | -1.9 | -2.6 | -13.9 | -12.7 | 1.1 | 0.6 | 1.5 |
| 7500.00 | -1.9 | -2.6 | -13.4 | -12.5 | 1.1 | 0.6 | 1.5 |
| 7600.00 | -2.0 | -2.7 | -13.0 | -12.2 | 1.2 | 0.7 | 1.7 |
| 7700.00 | -2.1 | -2.8 | -12.1 | -11.6 | 1.2 | 0.7 | 1.7 |
| 7800.00 | -2.2 | -2.9 | -11.6 | -11.2 | 1.2 | 0.7 | 2.6 |
| 7900.00 | -2.4 | -3.1 | -11.0 | -10.6 | 1.2 | 0.7 | 2.1 |
| 8000.00 | -2.5 | -3.1 | -10.1 | -9.9 | 1.2 | 0.7 | 2.0 |

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 29.8 | 28.6 | 26.6 | 23.5 | 18.5 | 15.0 | 14.2 |
| 1000.0 | 31.7 | 30.7 | 28.7 | 25.3 | 19.3 | 14.4 | 15.5 |
| 2000.0 | 33.4 | 32.8 | 31.5 | 29.2 | 25.2 | 18.4 | 16.2 |
| 4000.0 | 34.2 | 33.9 | 33.1 | 31.8 | 29.3 | 25.1 | 19.6 |
| 6000.0 | 35.1 | 34.6 | 33.7 | 32.1 | 29.0 | 23.3 | 17.1 |
| 8000.0 | 35.7 | 35.3 | 34.3 | 32.6 | 29.5 | 23.5 | 17.0 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.6 | 69.8 | 68.2 | 64.9 | 56.6 | 46.3 | 45.8 |
| 1000.0 | 71.1 | 71.0 | 70.6 | 68.2 | 58.5 | 52.9 | 51.9 |
| 2000.0 | 70.8 | 70.5 | 70.0 | 69.1 | 66.3 | 57.4 | 51.0 |
| 4000.0 | 72.6 | 72.7 | 72.7 | 73.0 | 73.5 | 73.6 | 54.1 |
| 6000.0 | 72.6 | 72.5 | 72.3 | 71.9 | 70.9 | 65.6 | 56.5 |
| 8000.0 | 83.4 | 83.2 | 83.1 | 82.8 | 81.8 | 78.4 | 67.3 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 11.8 | 8.9 |
| 1000.0 | 11.4 | 9.3 |
| 2000.0 | 13.1 | 10.8 |
| 4000.0 | 15.3 | 12.7 |
| 6000.0 | 15.7 | 12.7 |
| 8000.0 | 15.6 | 12.2 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.4 | -19.8 | -17.3 | 1.1 | 0.7 | 2.9 |
| 5600.00 | -1.7 | -2.4 | -20.3 | -17.2 | 1.1 | 0.7 | 2.7 |
| 5700.00 | -1.7 | -2.4 | -20.2 | -16.9 | 1.1 | 0.7 | 2.9 |
| 5800.00 | -1.7 | -2.4 | -19.7 | -16.3 | 1.1 | 0.7 | 2.8 |
| 5900.00 | -1.7 | -2.5 | -18.8 | -15.7 | 1.1 | 0.7 | 2.7 |
| 6000.00 | -1.7 | -2.5 | -18.1 | -15.1 | 1.1 | 0.7 | 2.8 |
| 6100.00 | -1.7 | -2.5 | -17.0 | -14.4 | 1.1 | 0.7 | 2.7 |
| 6200.00 | -1.7 | -2.5 | -16.2 | -13.8 | 1.1 | 0.7 | 2.7 |
| 6300.00 | -1.8 | -2.6 | -15.2 | -13.2 | 1.1 | 0.7 | 2.9 |
| 6400.00 | -1.8 | -2.6 | -14.5 | -12.7 | 1.1 | 0.7 | 2.9 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.1 | 1.1 | 0.7 | 3.0 |
| 6600.00 | -1.9 | -2.7 | -13.0 | -11.6 | 1.1 | 0.7 | 2.7 |
| 6700.00 | -1.9 | -2.8 | -12.2 | -11.0 | 1.1 | 0.7 | 2.9 |
| 6800.00 | -2.0 | -2.9 | -11.6 | -10.6 | 1.1 | 0.7 | 2.9 |
| 6900.00 | -2.0 | -2.9 | -11.0 | -10.1 | 1.1 | 0.7 | 3.0 |
| 7000.00 | -2.1 | -3.0 | -10.4 | -9.7 | 1.1 | 0.7 | 3.0 |
| 7100.00 | -2.2 | -3.1 | -9.8 | -9.2 | 1.1 | 0.7 | 3.2 |
| 7200.00 | -2.3 | -3.2 | -9.3 | -8.8 | 1.1 | 0.7 | 3.2 |
| 7300.00 | -2.5 | -3.3 | -8.7 | -8.3 | 1.1 | 0.6 | 3.0 |
| 7400.00 | -2.6 | -3.5 | -8.3 | -8.0 | 1.1 | 0.6 | 3.3 |
| 7500.00 | -2.7 | -3.6 | -7.8 | -7.6 | 1.2 | 0.6 | 3.8 |
| 7600.00 | -2.9 | -3.7 | -7.4 | -7.2 | 1.2 | 0.6 | 3.4 |
| 7700.00 | -3.1 | -3.9 | -6.9 | -6.8 | 1.2 | 0.6 | 3.3 |
| 7800.00 | -3.2 | -4.1 | -6.5 | -6.5 | 1.2 | 0.6 | 2.8 |
| 7900.00 | -3.5 | -4.3 | -6.1 | -6.1 | 1.2 | 0.6 | 3.9 |
| 8000.00 | -3.6 | -4.4 | -5.8 | -5.8 | 1.2 | 0.6 | 3.9 |
| 8100.00 | -3.9 | -4.6 | -5.3 | -5.4 | 1.2 | 0.6 | 3.8 |
| 8200.00 | -4.1 | -4.8 | -5.1 | -5.2 | 1.2 | 0.6 | 3.7 |
| 8300.00 | -4.3 | -5.1 | -4.7 | -4.9 | 1.2 | 0.6 | 4.0 |
| 8400.00 | -4.5 | -5.3 | -4.5 | -4.7 | 1.2 | 0.6 | 4.1 |
| 8500.00 | -4.7 | -5.4 | -4.2 | -4.4 | 1.2 | 0.6 | 3.9 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 14.5 | 11.5 |
| 6000.0 | 15.1 | 12.2 |
| 7000.0 | 16.6 | 13.1 |
| 8000.0 | 17.4 | 12.0 |
| 8500.0 | 16.2 | 10.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.9 | 70.8 | 70.7 | 70.4 | 69.3 | 65.1 | 58.4 | 36.0 | 35.8 | 34.9 | 34.4 | 31.9 | 28.0 | 21.4 |
| 6000.0 | 75.8 | 75.8 | 75.7 | 75.5 | 75.0 | 73.4 | 66.7 | 36.6 | 36.4 | 35.7 | 33.7 | 30.8 | 25.3 | 17.3 |
| 7000.0 | 86.3 | 86.2 | 86.0 | 85.6 | 84.6 | 81.7 | 71.5 | 36.5 | 36.7 | 36.2 | 33.1 | 30.4 | 26.1 | 20.3 |
| 8000.0 | 83.5 | 83.5 | 83.4 | 83.1 | 82.6 | 80.6 | 73.1 | 36.2 | 35.9 | 35.3 | 35.0 | 33.0 | 29.3 | 22.1 |
| 8500.0 | 92.6 | 92.7 | 92.8 | 92.7 | 91.8 | 90.2 | 108.3 | 35.9 | 35.1 | 33.6 | 30.8 | 25.9 | 17.1 | 15.6 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 105 mA, $I_{EN}$ = 2.69 mA @ Temperature = + 85°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 15.0 | -33.3 | -1.9 | -4.8 | 1.5 | 1.0 | 20.3 | 22.2 | 5.3 | 31.2 | 34.0 | 33.9 | 33.0 | 33.3 | 33.2 | 32.8 |
| 300.00 | 19.9 | -28.3 | -5.9 | -9.0 | 1.2 | 0.8 | 21.1 | 22.7 | 2.9 | 30.8 | 33.2 | 34.0 | 34.0 | 34.6 | 34.3 | 34.2 |
| 400.00 | 21.3 | -26.8 | -12.3 | -15.1 | 1.2 | 0.7 | 21.9 | 23.2 | 2.2 | 32.7 | 34.4 | 34.2 | 35.6 | 35.5 | 35.6 | 35.2 |
| 500.00 | 21.7 | -26.5 | -17.9 | -18.2 | 1.2 | 0.7 | 22.3 | 23.3 | 1.9 | 33.1 | 35.2 | 35.2 | 35.7 | 36.1 | 35.3 | 35.3 |
| 600.00 | 21.7 | -26.5 | -18.1 | -17.2 | 1.1 | 0.7 | 22.6 | 23.5 | 1.7 | 32.7 | 34.5 | 36.6 | 36.5 | 36.3 | 36.2 | 36.2 |
| 700.00 | 21.7 | -26.6 | -16.4 | -16.2 | 1.1 | 0.7 | 22.8 | 23.6 | 1.6 | 32.2 | 35.2 | 36.2 | 36.0 | 36.2 | 35.9 | 35.8 |
| 800.00 | 21.7 | -26.5 | -15.4 | -15.8 | 1.1 | 0.6 | 22.9 | 23.7 | 1.6 | 33.9 | 34.1 | 36.5 | 35.4 | 35.7 | 35.6 | 35.5 |
| 900.00 | 21.7 | -26.6 | -15.0 | -15.7 | 1.1 | 0.7 | 23.0 | 23.8 | 1.6 | 34.0 | 34.8 | 36.0 | 36.5 | 35.9 | 35.9 | 35.8 |
| 1000.00 | 21.7 | -26.6 | -14.8 | -15.8 | 1.1 | 0.7 | 23.1 | 23.8 | 1.6 | 35.3 | 35.1 | 36.3 | 36.1 | 36.4 | 36.4 | 36.3 |
| 1100.00 | 21.7 | -26.7 | -14.8 | -16.2 | 1.1 | 0.7 | 23.1 | 23.8 | 1.6 | 34.2 | 34.6 | 36.6 | 35.9 | 35.8 | 35.8 | 35.8 |
| 1200.00 | 21.8 | -26.7 | -15.0 | -16.8 | 1.1 | 0.7 | 23.1 | 23.9 | 1.6 | 33.7 | 34.7 | 34.9 | 35.9 | 35.6 | 35.5 | 35.3 |
| 1300.00 | 21.8 | -26.7 | -15.2 | -17.6 | 1.2 | 0.7 | 23.2 | 24.0 | 1.6 | 34.8 | 34.5 | 35.7 | 34.9 | 35.0 | 35.0 | 34.9 |
| 1400.00 | 21.8 | -26.7 | -15.6 | -18.6 | 1.2 | 0.7 | 23.1 | 23.9 | 1.6 | 34.1 | 33.7 | 35.7 | 35.1 | 35.5 | 35.5 | 35.5 |
| 1500.00 | 21.8 | -26.8 | -15.9 | -19.9 | 1.2 | 0.7 | 23.0 | 24.0 | 1.6 | 32.4 | 34.1 | 34.6 | 34.2 | 34.3 | 34.4 | 34.1 |
| 1600.00 | 21.8 | -26.9 | -16.0 | -21.4 | 1.2 | 0.7 | 23.1 | 24.0 | 1.7 | 33.6 | 33.2 | 34.9 | 34.6 | 34.8 | 34.7 | 34.7 |
| 1700.00 | 21.8 | -26.9 | -16.0 | -22.7 | 1.2 | 0.7 | 23.1 | 24.1 | 1.7 | 34.7 | 33.8 | 33.7 | 33.9 | 34.3 | 34.1 | 34.1 |
| 1800.00 | 21.9 | -26.9 | -16.2 | -24.8 | 1.2 | 0.7 | 23.0 | 24.1 | 1.7 | 32.4 | 33.6 | 33.5 | 33.9 | 34.0 | 34.1 | 34.1 |
| 1900.00 | 21.9 | -27.0 | -16.1 | -26.6 | 1.2 | 0.7 | 22.9 | 24.0 | 1.8 | 32.1 | 34.2 | 33.0 | 33.4 | 33.1 | 33.3 | 33.1 |
| 2000.00 | 21.9 | -27.0 | -15.8 | -26.9 | 1.2 | 0.7 | 22.7 | 23.9 | 1.8 | 32.6 | 33.9 | 33.3 | 33.8 | 33.9 | 33.8 | 33.6 |
| 2100.00 | 21.9 | -27.1 | -15.4 | -25.8 | 1.2 | 0.7 | 22.9 | 24.1 | 1.8 | 34.0 | 32.8 | 33.0 | 33.2 | 33.3 | 33.6 | 33.3 |
| 2200.00 | 21.9 | -27.2 | -14.9 | -23.9 | 1.2 | 0.7 | 22.8 | 24.0 | 1.9 | 34.2 | 32.9 | 33.0 | 33.6 | 33.9 | 34.0 | 33.8 |
| 2300.00 | 21.9 | -27.3 | -14.3 | -21.8 | 1.2 | 0.7 | 22.8 | 24.2 | 1.8 | 32.1 | 32.4 | 33.0 | 33.0 | 33.3 | 33.4 | 33.3 |
| 2400.00 | 21.9 | -27.3 | -13.7 | -20.1 | 1.2 | 0.7 | 22.4 | 24.1 | 1.9 | 31.9 | 32.7 | 32.5 | 32.3 | 32.2 | 32.3 | 32.0 |
| 2500.00 | 21.8 | -27.5 | -13.2 | -18.8 | 1.2 | 0.8 | 22.2 | 24.1 | 1.9 | 31.1 | 32.4 | 31.7 | 32.1 | 32.3 | 32.1 | 32.1 |
| 2600.00 | 21.8 | -27.6 | -12.7 | -17.7 | 1.2 | 0.8 | 22.0 | 23.9 | 1.9 | 31.1 | 31.8 | 32.2 | 32.2 | 32.0 | 32.0 | 31.8 |
| 2700.00 | 21.8 | -27.7 | -12.2 | -16.8 | 1.2 | 0.8 | 21.8 | 23.7 | 2.0 | 31.5 | 31.6 | 32.6 | 32.2 | 32.5 | 32.4 | 32.3 |
| 2800.00 | 21.8 | -27.8 | -11.8 | -16.0 | 1.2 | 0.8 | 21.7 | 23.5 | 1.9 | 31.2 | 31.2 | 32.1 | 31.8 | 31.9 | 31.9 | 31.8 |
| 2900.00 | 21.7 | -27.9 | -11.3 | -15.2 | 1.2 | 0.8 | 21.4 | 23.3 | 2.0 | 29.7 | | 30.9 | 31.0 | 31.1 | 31.0 | 30.8 |
| 3000.00 | 21.7 | -28.0 | -10.9 | -14.6 | 1.2 | 0.8 | 21.4 | 23.3 | 2.0 | 30.8 | 31.3 | 30.6 | 31.0 | 31.0 | 30.9 | 30.8 |
| 3100.00 | 21.7 | -28.0 | -10.5 | -14.1 | 1.2 | 0.8 | 21.2 | 23.3 | 2.0 | 30.9 | 31.8 | 30.6 | 30.4 | 30.5 | 30.4 | 30.3 |
| 3200.00 | 21.7 | -28.0 | -10.2 | -13.8 | 1.2 | 0.8 | 21.4 | 23.4 | 2.0 | 29.8 | 31.4 | 30.9 | 30.8 | 30.7 | 30.8 | 30.7 |
| 3300.00 | 21.7 | -28.1 | -10.1 | -13.6 | 1.2 | 0.8 | 21.2 | 23.3 | 2.0 | 30.4 | 31.5 | 31.0 | 30.7 | 30.7 | 30.7 | 30.6 |
| 3400.00 | 21.7 | -28.1 | -9.9 | -13.4 | 1.2 | 0.8 | 21.1 | 23.1 | 2.0 | 30.0 | 30.5 | 30.8 | 31.1 | 31.1 | 31.1 | 31.0 |
| 3500.00 | 21.7 | -28.2 | -9.8 | -13.4 | 1.2 | 0.8 | 21.1 | 23.2 | 2.1 | 30.3 | 30.8 | 30.1 | 30.2 | 30.3 | 30.3 | 30.2 |
| 3600.00 | 21.7 | -28.2 | -9.8 | -13.6 | 1.2 | 0.8 | 21.1 | 23.0 | 2.0 | 30.1 | 30.4 | 30.1 | 30.1 | 30.2 | 30.2 | 30.2 |
| 3700.00 | 21.8 | -28.3 | -9.8 | -13.7 | 1.2 | 0.8 | 21.5 | 23.3 | 2.0 | 30.4 | 30.7 | 30.7 | 31.1 | 31.1 | 31.3 | 31.4 |
| 3800.00 | 21.8 | -28.3 | -9.9 | -13.9 | 1.2 | 0.8 | 21.5 | 23.3 | 2.0 | 29.7 | 30.4 | 30.0 | 30.1 | 30.1 | 30.3 | 30.3 |
| 3900.00 | 21.8 | -28.3 | -10.0 | -14.2 | 1.2 | 0.8 | 21.5 | 23.3 | 1.9 | 29.6 | 30.2 | 29.7 | 30.4 | 30.4 | 30.6 | 30.6 |
| 4000.00 | 21.9 | -28.3 | -10.1 | -14.6 | 1.2 | 0.8 | 21.4 | 23.3 | 1.9 | 30.4 | 30.2 | 30.5 | 30.5 | 30.5 | 30.9 | 31.0 |
| 4100.00 | 21.9 | -28.3 | -10.4 | -15.2 | 1.2 | 0.8 | 21.4 | 23.4 | 1.9 | 30.6 | 29.8 | 30.0 | 30.2 | 30.3 | 30.5 | 30.5 |
| 4200.00 | 22.0 | -28.4 | -10.6 | -15.8 | 1.2 | 0.8 | 21.5 | 23.4 | 1.9 | 30.4 | 29.6 | 29.7 | 30.0 | 30.3 | 30.4 | 30.5 |
| 4300.00 | 22.1 | -28.4 | -10.9 | -16.2 | 1.2 | 0.8 | 21.3 | 23.2 | 1.9 | 29.1 | 29.8 | 30.3 | 30.1 | 30.5 | 30.7 | 30.7 |
| 4400.00 | 22.1 | -28.4 | -11.4 | -17.0 | 1.2 | 0.8 | 21.3 | 23.2 | 1.8 | 29.0 | 29.5 | 29.8 | 30.0 | 30.2 | 30.3 | 30.4 |
| 4500.00 | 22.2 | -28.4 | -11.7 | -17.8 | 1.2 | 0.8 | 21.0 | 23.0 | 1.9 | 28.6 | 29.8 | 29.7 | 30.0 | 30.0 | 30.1 | 30.3 |
| 4600.00 | 22.2 | -28.5 | -12.3 | -18.6 | 1.3 | 0.8 | 20.7 | 22.9 | 1.9 | 30.2 | 30.1 | 29.5 | 29.8 | 29.9 | 30.0 | 30.1 |
| 4700.00 | 22.3 | -28.5 | -12.8 | -19.6 | 1.3 | 0.8 | 20.8 | 22.9 | 1.8 | 28.8 | 29.1 | 29.1 | 29.3 | 29.5 | 29.7 | 29.8 |
| 4800.00 | 22.4 | -28.6 | -13.2 | -20.0 | 1.3 | 0.8 | 21.1 | 23.1 | 1.9 | 29.1 | 29.5 | 29.4 | 29.5 | 29.9 | 30.1 | 30.3 |
| 4900.00 | 22.4 | -28.7 | -14.0 | -20.9 | 1.3 | 0.8 | 20.8 | 22.8 | 2.0 | 29.1 | 29.1 | 28.7 | 29.2 | 29.3 | 29.5 | 29.6 |
| 5000.00 | 22.4 | -28.7 | -14.4 | -22.0 | 1.3 | 0.8 | 20.7 | 22.6 | 1.9 | 28.2 | 28.3 | 28.8 | 28.7 | 29.0 | 29.1 | 29.2 |
| 5100.00 | 22.5 | -28.8 | -14.7 | -22.2 | 1.3 | 0.8 | 21.1 | 22.8 | 2.0 | 28.1 | 28.9 | 28.4 | 28.6 | 28.8 | 29.1 | 29.2 |
| 5200.00 | 22.5 | -28.9 | -15.4 | -23.0 | 1.3 | 0.8 | 21.2 | 22.9 | 1.9 | 27.9 | 28.6 | 28.3 | 28.7 | 28.9 | 29.2 | 29.5 |
| 5300.00 | 22.6 | -28.9 | -15.2 | -22.6 | 1.3 | 0.8 | 20.8 | 22.6 | 1.9 | 27.5 | 29.0 | 28.2 | 28.5 | 28.8 | 29.1 | 29.2 |
| 5400.00 | 22.6 | -29.1 | -15.3 | -22.3 | 1.3 | 0.8 | 20.3 | 22.3 | 1.9 | 28.4 | 29.0 | 28.5 | 28.6 | 28.8 | 29.0 | 29.1 |
| 5500.00 | 22.6 | -29.1 | -15.4 | -23.2 | 1.3 | 0.8 | 19.9 | 22.1 | 1.9 | 27.7 | 28.0 | 27.7 | 27.9 | 28.1 | 28.3 | 28.3 |
| 5600.00 | 22.7 | -29.2 | -14.1 | -21.4 | 1.3 | 0.8 | 19.4 | 21.6 | 1.9 | 27.4 | 28.2 | 27.9 | 28.1 | 28.2 | 28.3 | 28.3 |
| 5700.00 | 22.5 | -29.5 | -13.8 | -20.6 | 1.4 | 0.8 | 19.3 | 21.3 | 2.0 | 27.2 | 28.0 | 26.9 | 27.1 | 27.3 | 27.3 | 27.3 |
| 5800.00 | 22.6 | -29.4 | -13.0 | -20.4 | 1.3 | 0.8 | 19.3 | 21.0 | 2.0 | 26.7 | 27.0 | 26.7 | 27.0 | 27.1 | 27.2 | 27.2 |
| 5900.00 | 22.5 | -29.8 | -11.5 | -18.3 | 1.4 | 0.9 | 19.3 | 20.9 | 2.0 | 26.4 | 26.9 | 27.0 | 27.1 | 27.2 | 27.3 | 27.3 |
| 6000.00 | 22.4 | -29.9 | -11.3 | -18.2 | 1.4 | 0.9 | 19.1 | 20.5 | 2.0 | 26.7 | 26.9 | 26.6 | 26.8 | 26.8 | 26.9 | 26.8 |
| 6100.00 | 22.5 | -30.0 | -10.1 | -16.7 | 1.4 | 0.9 | 19.3 | 20.4 | 2.2 | 26.1 | 26.7 | 26.7 | 26.9 | 27.1 | 27.2 | 27.3 |
| 6200.00 | 22.2 | -30.5 | -9.0 | -15.1 | 1.4 | 0.9 | 19.2 | 20.2 | 2.1 | 26.5 | 26.0 | 26.7 | 26.7 | 26.8 | 26.9 | 27.0 |
| 6300.00 | 22.1 | -30.5 | -8.6 | -14.7 | 1.4 | 0.9 | 19.2 | 20.1 | 2.1 | 25.8 | 26.1 | 26.0 | 26.1 | 26.2 | 26.4 | 26.5 |
| 6400.00 | 22.1 | -30.9 | -7.5 | -13.2 | 1.4 | 1.0 | 19.1 | 20.0 | 2.2 | 26.2 | 26.6 | 26.3 | 26.6 | 26.7 | 26.9 | 27.0 |
| 6500.00 | 21.7 | -31.7 | -6.9 | -12.3 | 1.5 | 1.0 | 19.1 | 19.9 | 2.2 | 26.4 | 25.6 | 26.1 | 26.2 | 26.3 | 26.5 | 26.5 |
| 6600.00 | 21.6 | -31.8 | -6.4 | -11.7 | 1.5 | 1.0 | 19.1 | 19.9 | 2.4 | 25.4 | 25.8 | 25.7 | 25.9 | 26.0 | 26.2 | 26.1 |
| 6700.00 | 21.4 | -32.5 | -5.5 | -10.5 | 1.6 | 1.0 | 18.8 | 19.6 | 2.5 | 25.5 | 25.3 | 25.9 | 26.0 | 26.2 | 26.3 | 26.2 |
| 6800.00 | 20.9 | -33.3 | -5.2 | -9.9 | 1.7 | 1.1 | 18.6 | 19.4 | 2.3 | 25.3 | 26.4 | 25.4 | 25.5 | 25.7 | 25.8 | 25.7 |
| 6900.00 | 20.7 | -33.7 | -4.7 | -9.4 | 1.7 | 1.1 | 18.4 | 19.1 | 2.3 | 24.7 | 24.6 | 25.1 | 25.2 | 25.4 | 25.5 | 25.4 |
| 7000.00 | 20.2 | -34.7 | -4.2 | -8.6 | 1.8 | 1.1 | 18.1 | 18.8 | 2.4 | 25.0 | 25.4 | 25.1 | 25.2 | 25.3 | 25.3 | 25.1 |
| 7100.00 | 19.6 | -35.6 | -4.1 | -8.2 | 2.1 | 1.1 | 17.8 | 18.5 | 2.4 | 25.3 | 25.5 | 25.2 | 25.3 | 25.4 | 25.4 | 25.1 |
| 7200.00 | 19.2 | -36.4 | -3.7 | -7.7 | 2.2 | 1.1 | 17.4 | 18.1 | 2.4 | 24.7 | 24.9 | 24.8 | 24.9 | 25.0 | 25.0 | 24.6 |
| 7300.00 | 18.5 | -38.0 | -3.5 | -7.3 | 2.6 | 1.1 | 17.0 | 17.6 | 2.5 | 24.3 | 25.4 | 24.4 | 24.4 | 24.5 | 24.3 | 23.8 |
| 7400.00 | 17.8 | -39.2 | -3.5 | -7.1 | 3.1 | 1.1 | 16.7 | 17.2 | 2.4 | 25.0 | 25.2 | 24.8 | 24.9 | 24.9 | 24.8 | 24.2 |
| 7500.00 | 17.1 | -40.8 | -3.3 | -6.8 | 3.8 | 1.1 | 16.1 | 16.7 | 2.5 | 23.8 | 24.4 | 23.9 | 23.9 | 23.8 | 23.5 | 22.6 |
| 7600.00 | 16.2 | -42.9 | -3.4 | -6.6 | 5.1 | 1.1 | 15.6 | 16.1 | 2.6 | 23.9 | 24.3 | 23.6 | 23.6 | 23.5 | 23.0 | 21.9 |
| 7700.00 | 15.6 | -43.8 | -3.5 | -6.4 | 6.1 | 1.1 | 15.0 | 15.5 | 2.6 | 23.2 | 23.7 | 22.9 | 22.9 | 22.7 | 21.9 | 20.8 |
| 7800.00 | 14.6 | -47.3 | -3.4 | -6.1 | 9.7 | 1.1 | 14.1 | 14.7 | 2.7 | 23.3 | 23.4 | 23.3 | 23.3 | 23.0 | 22.3 | 21.1 |
| 7900.00 | 13.2 | -47.8 | -3.7 | -5.8 | 12.2 | 1.1 | 13.0 | 13.6 | 2.8 | 21.4 | 21.9 | 21.4 | 21.1 | 20.3 | 18.8 | 15.6 |
| 8000.00 | 12.1 | -48.8 | -3.7 | -5.7 | 15.5 | 1.1 | 11.8 | 12.4 | 2.8 | 21.4 | 20.9 | 21.0 | 20.6 | 19.5 | 18.1 | 14.6 |

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 105 mA, $I_{EN}$ = 2.69 mA @ Temperature = + 85°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 47.3 | 47.2 | 47.1 | 47.1 | 46.9 | 46.8 | 46.5 |
| 1000.0 | 45.8 | 45.7 | 45.6 | 45.5 | 45.3 | 45.1 | 44.8 |
| 2000.0 | 43.0 | 42.7 | 42.7 | 42.5 | 42.4 | 42.3 | 42.3 |
| 4000.0 | 43.8 | 43.7 | 43.6 | 43.7 | 43.4 | 43.3 | 43.4 |
| 6000.0 | 34.0 | 33.8 | 33.7 | 33.5 | 33.3 | 33.2 | 33.1 |
| 8000.0 | 39.1 | 38.8 | 38.6 | 38.6 | 39.0 | 40.2 | 42.4 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 111 mA, $I_{EN}$ = 2.69 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.7 | -29.7 | -8.8 | -8.9 | 1.3 | 0.8 | 19.7 | 21.8 | 2.0 | 27.8 | 28.5 | 28.7 | 28.8 | 28.9 | 29.1 | 29.2 |
| 5600.00 | 21.8 | -29.9 | -8.6 | -8.9 | 1.3 | 0.8 | 19.4 | 21.5 | 2.0 | 27.0 | 27.1 | 27.4 | 27.6 | 27.7 | 27.9 | 27.8 |
| 5700.00 | 21.8 | -29.9 | -8.9 | -9.1 | 1.4 | 0.8 | 19.2 | 21.3 | 2.0 | 27.6 | 27.1 | 27.5 | 27.7 | 27.9 | 28.0 | 28.0 |
| 5800.00 | 21.9 | -30.0 | -8.6 | -9.1 | 1.4 | 0.8 | 19.2 | 21.2 | 2.0 | 26.4 | 27.0 | 27.5 | 27.5 | 27.7 | 27.9 | 27.9 |
| 5900.00 | 21.9 | -30.0 | -8.9 | -9.3 | 1.4 | 0.8 | 19.0 | 20.8 | 2.0 | 26.7 | 27.3 | 27.0 | 27.2 | 27.4 | 27.5 | 27.6 |
| 6000.00 | 22.0 | -30.1 | -8.5 | -9.2 | 1.4 | 0.8 | 18.9 | 20.4 | 2.0 | 25.6 | 26.0 | 25.9 | 26.0 | 26.3 | 26.4 | 26.3 |
| 6100.00 | 22.0 | -30.1 | -8.8 | -9.4 | 1.4 | 0.8 | 19.4 | 20.7 | 2.0 | 26.4 | 26.8 | 26.7 | 26.8 | 27.0 | 27.3 | 27.4 |
| 6200.00 | 22.1 | -30.2 | -8.4 | -9.3 | 1.4 | 0.8 | 19.5 | 20.6 | 2.0 | 26.2 | 26.0 | 26.1 | 26.5 | 26.7 | 26.9 | 27.0 |
| 6300.00 | 22.1 | -30.3 | -8.6 | -9.5 | 1.4 | 0.8 | 19.9 | 20.9 | 2.0 | 26.9 | 26.7 | 27.1 | 27.1 | 27.5 | 27.8 | 28.1 |
| 6400.00 | 22.2 | -30.5 | -8.3 | -9.4 | 1.4 | 0.8 | 20.0 | 21.0 | 2.0 | 26.4 | 26.8 | 26.9 | 27.1 | 27.4 | 27.7 | 28.0 |
| 6500.00 | 22.2 | -30.6 | -8.5 | -9.7 | 1.4 | 0.8 | 20.0 | 20.9 | 2.1 | 26.5 | 26.5 | 26.9 | 27.2 | 27.5 | 27.8 | 28.1 |
| 6600.00 | 22.2 | -30.9 | -8.3 | -9.7 | 1.4 | 0.8 | 20.2 | 21.1 | 2.0 | 26.4 | 26.8 | 26.9 | 27.1 | 27.5 | 27.9 | 28.2 |
| 6700.00 | 22.2 | -31.0 | -8.5 | -10.0 | 1.4 | 0.8 | 20.2 | 21.0 | 2.1 | 26.3 | 26.7 | 26.7 | 27.0 | 27.3 | 27.8 | 28.2 |
| 6800.00 | 22.3 | -31.2 | -8.3 | -10.0 | 1.5 | 0.9 | 20.2 | 21.1 | 2.1 | 27.0 | 27.1 | 26.9 | 27.2 | 27.5 | 28.0 | 28.4 |
| 6900.00 | 22.2 | -31.4 | -8.5 | -10.4 | 1.5 | 0.9 | 20.3 | 21.2 | 2.1 | 26.5 | 26.4 | 26.9 | 27.2 | 27.6 | 28.1 | 28.5 |
| 7000.00 | 22.2 | -31.8 | -8.2 | -10.4 | 1.6 | 0.9 | 20.3 | 21.1 | 2.1 | 26.3 | 26.0 | 26.7 | 26.8 | 27.2 | 27.7 | 28.1 |
| 7100.00 | 22.1 | -31.9 | -8.5 | -10.9 | 1.6 | 0.9 | 20.2 | 21.0 | 2.2 | 26.5 | 26.7 | 26.8 | 27.1 | 27.5 | 28.0 | 28.5 |
| 7200.00 | 22.1 | -32.4 | -8.3 | -11.0 | 1.7 | 0.9 | 20.3 | 21.1 | 2.2 | 26.6 | 26.4 | 26.8 | 26.9 | 27.4 | 27.9 | 28.4 |
| 7300.00 | 22.0 | -32.6 | -8.5 | -11.6 | 1.7 | 0.9 | 20.1 | 20.9 | 2.3 | 25.8 | 26.1 | 26.3 | 26.7 | 27.0 | 27.6 | 28.1 |
| 7400.00 | 21.9 | -33.4 | -8.2 | -11.8 | 1.9 | 1.0 | 20.2 | 20.9 | 2.3 | 25.8 | 25.7 | 26.4 | 26.7 | 27.1 | 27.6 | 28.1 |
| 7500.00 | 21.7 | -33.5 | -8.4 | -12.7 | 2.0 | 1.0 | 20.0 | 20.7 | 2.4 | 25.7 | 26.2 | 26.2 | 26.6 | 27.1 | 27.6 | 28.2 |
| 7600.00 | 21.5 | -34.7 | -8.0 | -12.9 | 2.2 | 1.0 | 19.8 | 20.4 | 2.5 | 26.4 | 26.5 | 26.5 | 26.7 | 27.2 | 27.7 | 28.2 |
| 7700.00 | 21.1 | -34.8 | -8.0 | -14.2 | 2.3 | 1.0 | 19.6 | 20.2 | 2.6 | 24.9 | 25.2 | 25.4 | 25.7 | 26.2 | 26.7 | 27.1 |
| 7800.00 | 20.8 | -36.0 | -7.4 | -14.4 | 2.7 | 1.1 | 19.5 | 20.1 | 2.7 | 25.6 | 25.6 | 26.1 | 26.3 | 26.9 | 27.5 | 28.0 |
| 7900.00 | 20.3 | -36.5 | -7.3 | -15.8 | 2.9 | 1.1 | 19.3 | 19.9 | 2.8 | 25.6 | 25.3 | 25.9 | 26.3 | 26.8 | 27.4 | 28.0 |
| 8000.00 | 19.7 | -38.1 | -6.4 | -15.4 | 3.5 | 1.2 | 19.0 | 19.6 | 2.9 | 25.0 | 24.8 | 25.3 | 25.8 | 26.4 | 27.1 | 27.5 |
| 8100.00 | 19.1 | -38.3 | -6.2 | -15.9 | 3.8 | 1.2 | 18.7 | 19.2 | 3.0 | 24.8 | 25.2 | 25.5 | 25.9 | 26.3 | 27.0 | 27.5 |
| 8200.00 | 18.1 | -40.5 | -5.3 | -14.2 | 4.9 | 1.2 | 18.3 | 18.7 | 3.2 | 24.3 | | 25.1 | 25.4 | 26.1 | 26.7 | 26.6 |
| 8300.00 | 17.4 | -40.6 | -5.0 | -13.5 | 5.1 | 1.3 | 17.9 | 18.3 | 3.4 | 24.5 | 25.0 | 25.3 | 25.6 | 26.3 | 27.0 | 27.0 |
| 8400.00 | 16.1 | -42.8 | -4.3 | -11.4 | 6.7 | 1.3 | 17.3 | 17.8 | 3.6 | 25.2 | 24.7 | 25.6 | 26.0 | 26.7 | 27.5 | 27.2 |
| 8500.00 | 15.2 | -43.1 | -3.9 | -10.4 | 7.1 | 1.3 | 16.7 | 17.1 | 3.8 | 24.0 | 24.2 | 24.6 | 25.3 | 26.1 | 26.2 | 24.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 37.5 | 37.5 | 37.4 | 37.3 | 37.2 | 37.2 | 37.2 |
| 6000.0 | 34.6 | 34.5 | 34.4 | 34.2 | 34.0 | 34.0 | 33.9 |
| 7000.0 | 44.3 | 44.1 | 44.1 | 44.0 | 43.8 | 43.8 | 43.9 |
| 8000.0 | 52.4 | 52.4 | 52.2 | 52.2 | 52.0 | 52.0 | 52.2 |
| 8500.0 | 60.4 | 60.3 | 60.2 | 60.0 | 59.9 | 60.1 | 60.4 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.2 | 1.1 | 0.9 | 3.5 |
| 300.00 | -2.4 | -2.5 | -6.6 | -12.0 | 1.0 | 0.7 | 2.3 |
| 400.00 | -1.8 | -1.9 | -9.3 | -14.1 | 1.0 | 0.6 | 2.1 |
| 500.00 | -1.5 | -1.5 | -12.0 | -15.7 | 1.0 | 0.5 | 2.0 |
| 600.00 | -1.3 | -1.4 | -14.9 | -16.9 | 1.0 | 0.5 | 1.4 |
| 700.00 | -1.2 | -1.3 | -18.1 | -17.7 | 1.0 | 0.5 | 1.5 |
| 800.00 | -1.2 | -1.3 | -22.0 | -17.8 | 1.0 | 0.4 | 1.7 |
| 900.00 | -1.2 | -1.3 | -26.8 | -17.6 | 1.0 | 0.4 | 1.5 |
| 1000.00 | -1.2 | -1.3 | -30.0 | -17.2 | 1.0 | 0.4 | 1.4 |
| 1100.00 | -1.2 | -1.3 | -26.4 | -16.9 | 1.0 | 0.4 | 1.4 |
| 1200.00 | -1.2 | -1.3 | -22.9 | -16.7 | 1.0 | 0.4 | 1.3 |
| 1300.00 | -1.2 | -1.3 | -20.5 | -16.2 | 1.0 | 0.4 | 1.3 |
| 1400.00 | -1.2 | -1.3 | -18.7 | -15.8 | 1.0 | 0.4 | 1.5 |
| 1500.00 | -1.3 | -1.4 | -17.3 | -15.5 | 1.0 | 0.5 | 1.5 |
| 1600.00 | -1.3 | -1.4 | -16.2 | -15.4 | 1.0 | 0.5 | 1.6 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.3 | 1.0 | 0.5 | 1.7 |
| 1800.00 | -1.4 | -1.5 | -14.7 | -15.2 | 1.0 | 0.5 | 1.6 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 1.6 |
| 2000.00 | -1.4 | -1.6 | -13.7 | -15.0 | 1.0 | 0.5 | 1.9 |
| 2100.00 | -1.5 | -1.7 | -13.5 | -15.1 | 1.0 | 0.5 | 1.6 |
| 2200.00 | -1.5 | -1.7 | -13.2 | -15.4 | 1.0 | 0.5 | 2.0 |
| 2300.00 | -1.5 | -1.8 | -13.1 | -15.6 | 1.0 | 0.6 | 1.9 |
| 2400.00 | -1.5 | -1.8 | -13.0 | -15.9 | 1.0 | 0.6 | 2.1 |
| 2500.00 | -1.6 | -1.9 | -13.0 | -16.3 | 1.0 | 0.6 | 2.1 |
| 2600.00 | -1.6 | -1.9 | -13.0 | -16.9 | 1.1 | 0.6 | 2.2 |
| 2700.00 | -1.6 | -2.0 | -13.1 | -17.6 | 1.1 | 0.6 | 2.3 |
| 2800.00 | -1.6 | -2.0 | -13.2 | -18.3 | 1.1 | 0.6 | 2.3 |
| 2900.00 | -1.7 | -2.1 | -13.4 | -19.1 | 1.1 | 0.6 | 2.3 |
| 3000.00 | -1.7 | -2.1 | -13.5 | -20.2 | 1.1 | 0.7 | 2.3 |
| 3100.00 | -1.7 | -2.1 | -13.6 | -21.6 | 1.1 | 0.7 | 2.4 |
| 3200.00 | -1.7 | -2.1 | -13.7 | -23.2 | 1.1 | 0.7 | 2.2 |
| 3300.00 | -1.7 | -2.1 | -13.8 | -24.8 | 1.1 | 0.7 | 2.2 |
| 3400.00 | -1.7 | -2.1 | -13.8 | -26.4 | 1.1 | 0.7 | 2.3 |
| 3500.00 | -1.7 | -2.1 | -13.8 | -27.2 | 1.1 | 0.7 | 2.3 |
| 3600.00 | -1.7 | -2.1 | -13.8 | -25.8 | 1.1 | 0.7 | 2.1 |
| 3700.00 | -1.7 | -2.1 | -13.7 | -23.6 | 1.1 | 0.7 | 2.1 |
| 3800.00 | -1.8 | -2.1 | -13.5 | -21.7 | 1.1 | 0.7 | 2.2 |
| 3900.00 | -1.8 | -2.1 | -13.3 | -20.2 | 1.1 | 0.7 | 2.3 |
| 4000.00 | -1.8 | -2.1 | -13.1 | -18.7 | 1.1 | 0.7 | 2.1 |
| 4100.00 | -1.8 | -2.2 | -12.8 | -17.3 | 1.1 | 0.7 | 2.2 |
| 4200.00 | -1.8 | -2.2 | -12.5 | -16.2 | 1.1 | 0.6 | 2.0 |
| 4300.00 | -1.9 | -2.2 | -12.2 | -15.4 | 1.1 | 0.6 | 2.0 |
| 4400.00 | -1.9 | -2.2 | -12.0 | -14.7 | 1.1 | 0.6 | 2.1 |
| 4500.00 | -1.9 | -2.3 | -11.8 | -14.0 | 1.1 | 0.6 | 2.3 |
| 4600.00 | -1.9 | -2.3 | -11.5 | -13.4 | 1.1 | 0.6 | 2.4 |
| 4700.00 | -1.9 | -2.3 | -11.4 | -13.0 | 1.1 | 0.6 | 2.5 |
| 4800.00 | -1.9 | -2.4 | -11.2 | -12.7 | 1.1 | 0.6 | 1.9 |
| 4900.00 | -2.0 | -2.4 | -11.2 | -12.4 | 1.1 | 0.6 | 1.7 |
| 5000.00 | -1.9 | -2.4 | -11.0 | -12.1 | 1.1 | 0.6 | 2.0 |
| 5100.00 | -1.9 | -2.4 | -11.0 | -11.9 | 1.1 | 0.6 | 2.3 |
| 5200.00 | -1.9 | -2.4 | -10.9 | -11.7 | 1.1 | 0.6 | 1.7 |
| 5300.00 | -1.9 | -2.5 | -11.0 | -11.7 | 1.1 | 0.6 | 1.8 |
| 5400.00 | -1.9 | -2.5 | -11.0 | -11.6 | 1.1 | 0.6 | 1.8 |
| 5500.00 | -1.9 | -2.5 | -11.0 | -11.4 | 1.1 | 0.6 | 2.1 |
| 5600.00 | -1.9 | -2.5 | -11.2 | -11.5 | 1.1 | 0.6 | 1.8 |
| 5700.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 1.9 |
| 5800.00 | -1.8 | -2.4 | -11.5 | -11.5 | 1.1 | 0.6 | 1.7 |
| 5900.00 | -1.8 | -2.4 | -11.8 | -11.7 | 1.1 | 0.6 | 1.5 |
| 6000.00 | -1.8 | -2.4 | -11.9 | -11.7 | 1.1 | 0.6 | 1.5 |
| 6100.00 | -1.7 | -2.4 | -12.3 | -11.9 | 1.1 | 0.6 | 1.5 |
| 6200.00 | -1.8 | -2.4 | -12.7 | -12.2 | 1.1 | 0.6 | 1.6 |
| 6300.00 | -1.7 | -2.4 | -12.9 | -12.2 | 1.1 | 0.6 | 1.7 |
| 6400.00 | -1.7 | -2.4 | -13.3 | -12.5 | 1.1 | 0.6 | 1.9 |
| 6500.00 | -1.7 | -2.4 | -13.6 | -12.6 | 1.1 | 0.6 | 1.5 |
| 6600.00 | -1.6 | -2.4 | -13.8 | -12.7 | 1.1 | 0.6 | 1.5 |
| 6700.00 | -1.6 | -2.4 | -14.3 | -13.0 | 1.1 | 0.6 | 1.7 |
| 6800.00 | -1.7 | -2.4 | -14.5 | -13.1 | 1.1 | 0.6 | 1.7 |
| 6900.00 | -1.6 | -2.4 | -14.6 | -13.1 | 1.1 | 0.6 | 2.1 |
| 7000.00 | -1.6 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 1.7 |
| 7100.00 | -1.7 | -2.4 | -14.7 | -13.3 | 1.1 | 0.6 | 1.6 |
| 7200.00 | -1.7 | -2.4 | -14.6 | -13.3 | 1.1 | 0.6 | 1.6 |
| 7300.00 | -1.8 | -2.5 | -14.4 | -13.1 | 1.1 | 0.6 | 2.2 |
| 7400.00 | -1.8 | -2.6 | -13.9 | -12.7 | 1.1 | 0.6 | 1.5 |
| 7500.00 | -1.9 | -2.6 | -13.3 | -12.5 | 1.1 | 0.6 | 1.5 |
| 7600.00 | -2.0 | -2.7 | -12.9 | -12.2 | 1.2 | 0.7 | 2.0 |
| 7700.00 | -2.1 | -2.8 | -12.1 | -11.6 | 1.2 | 0.7 | 2.0 |
| 7800.00 | -2.2 | -2.9 | -11.6 | -11.2 | 1.2 | 0.7 | 1.9 |
| 7900.00 | -2.4 | -3.1 | -11.0 | -10.6 | 1.2 | 0.7 | 1.8 |
| 8000.00 | -2.4 | -3.1 | -10.1 | -9.9 | 1.2 | 0.7 | 1.5 |

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 29.4 | 28.2 | 26.3 | 23.2 | 18.2 | 14.9 | 14.0 |
| 1000.0 | 31.4 | 30.3 | 28.3 | 25.0 | 19.0 | 14.4 | 15.4 |
| 2000.0 | 32.9 | 32.3 | 31.1 | 28.8 | 24.9 | 18.2 | 16.2 |
| 4000.0 | 34.1 | 33.4 | 32.6 | 31.3 | 29.0 | 24.7 | 19.2 |
| 6000.0 | 34.7 | 34.3 | 33.4 | 31.7 | 28.6 | 22.7 | 16.9 |
| 8000.0 | 35.7 | 35.0 | 34.1 | 32.1 | 29.1 | 22.9 | 16.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.5 | 69.7 | 68.0 | 64.6 | 55.5 | 46.0 | 45.6 |
| 1000.0 | 71.1 | 71.1 | 70.5 | 67.9 | 58.0 | 53.1 | 51.8 |
| 2000.0 | 70.8 | 70.4 | 69.9 | 68.9 | 65.9 | 57.0 | 50.6 |
| 4000.0 | 72.9 | 72.9 | 72.9 | 73.2 | 73.8 | 74.1 | 52.6 |
| 6000.0 | 73.0 | 72.8 | 72.5 | 72.1 | 70.9 | 65.3 | 56.3 |
| 8000.0 | 83.3 | 83.2 | 83.1 | 82.7 | 81.7 | 78.0 | 66.9 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 11.8 | 8.9 |
| 1000.0 | 11.4 | 9.3 |
| 2000.0 | 13.1 | 10.7 |
| 4000.0 | 15.1 | 12.6 |
| 6000.0 | 15.5 | 12.5 |
| 8000.0 | 15.4 | 12.0 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +85°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.4 | -20.0 | -17.4 | 1.1 | 0.7 | 2.9 |
| 5600.00 | -1.7 | -2.4 | -20.4 | -17.2 | 1.1 | 0.7 | 2.6 |
| 5700.00 | -1.7 | -2.4 | -20.3 | -17.0 | 1.1 | 0.7 | 2.8 |
| 5800.00 | -1.7 | -2.4 | -19.8 | -16.3 | 1.1 | 0.7 | 2.9 |
| 5900.00 | -1.7 | -2.4 | -18.9 | -15.8 | 1.1 | 0.7 | 3.0 |
| 6000.00 | -1.7 | -2.5 | -18.1 | -15.2 | 1.1 | 0.7 | 2.7 |
| 6100.00 | -1.7 | -2.5 | -17.0 | -14.5 | 1.1 | 0.7 | 2.6 |
| 6200.00 | -1.7 | -2.5 | -16.2 | -13.9 | 1.1 | 0.7 | 2.7 |
| 6300.00 | -1.7 | -2.6 | -15.2 | -13.2 | 1.1 | 0.7 | 3.0 |
| 6400.00 | -1.8 | -2.6 | -14.5 | -12.7 | 1.1 | 0.7 | 2.6 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.1 | 1.1 | 0.7 | 3.2 |
| 6600.00 | -1.9 | -2.7 | -13.0 | -11.6 | 1.1 | 0.7 | 2.7 |
| 6700.00 | -1.9 | -2.8 | -12.2 | -11.0 | 1.1 | 0.7 | 2.9 |
| 6800.00 | -2.0 | -2.8 | -11.6 | -10.6 | 1.1 | 0.7 | 3.1 |
| 6900.00 | -2.0 | -2.9 | -11.0 | -10.1 | 1.1 | 0.7 | 3.0 |
| 7000.00 | -2.1 | -3.0 | -10.4 | -9.7 | 1.1 | 0.7 | 3.3 |
| 7100.00 | -2.2 | -3.1 | -9.8 | -9.2 | 1.1 | 0.6 | 2.7 |
| 7200.00 | -2.3 | -3.2 | -9.3 | -8.8 | 1.1 | 0.6 | 3.4 |
| 7300.00 | -2.5 | -3.3 | -8.7 | -8.3 | 1.1 | 0.6 | 3.2 |
| 7400.00 | -2.6 | -3.4 | -8.3 | -8.0 | 1.1 | 0.6 | 3.4 |
| 7500.00 | -2.7 | -3.6 | -7.8 | -7.5 | 1.2 | 0.6 | 3.2 |
| 7600.00 | -2.9 | -3.7 | -7.4 | -7.2 | 1.2 | 0.6 | 3.5 |
| 7700.00 | -3.1 | -3.9 | -6.9 | -6.7 | 1.2 | 0.6 | 3.5 |
| 7800.00 | -3.2 | -4.1 | -6.5 | -6.5 | 1.2 | 0.6 | 3.0 |
| 7900.00 | -3.4 | -4.3 | -6.1 | -6.1 | 1.2 | 0.6 | 3.8 |
| 8000.00 | -3.6 | -4.4 | -5.8 | -5.8 | 1.2 | 0.6 | 4.3 |
| 8100.00 | -3.8 | -4.6 | -5.3 | -5.4 | 1.2 | 0.6 | 3.9 |
| 8200.00 | -4.1 | -4.8 | -5.1 | -5.2 | 1.2 | 0.6 | 3.7 |
| 8300.00 | -4.3 | -5.0 | -4.7 | -4.8 | 1.2 | 0.6 | 4.3 |
| 8400.00 | -4.5 | -5.3 | -4.5 | -4.7 | 1.2 | 0.6 | 4.0 |
| 8500.00 | -4.7 | -5.4 | -4.2 | -4.4 | 1.2 | 0.6 | 4.2 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 14.3 | 11.4 |
| 6000.0 | 14.9 | 12.0 |
| 7000.0 | 16.4 | 12.9 |
| 8000.0 | 17.2 | 11.9 |
| 8500.0 | 16.0 | 10.6 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 71.1 | 71.0 | 71.0 | 70.7 | 69.5 | 64.9 | 57.9 | 35.2 | 34.9 | 34.2 | 33.6 | 31.3 | 27.4 | 20.8 |
| 6000.0 | 76.2 | 76.0 | 75.9 | 75.6 | 75.0 | 73.2 | 65.9 | 36.2 | 35.9 | 35.1 | 33.1 | 30.1 | 24.5 | 17.0 |
| 7000.0 | 86.4 | 86.2 | 85.9 | 85.5 | 84.5 | 81.2 | 69.8 | 36.5 | 36.2 | 35.5 | 32.5 | 29.8 | 25.5 | 19.9 |
| 8000.0 | 83.5 | 83.4 | 83.3 | 83.1 | 82.4 | 80.3 | 72.8 | 36.1 | 35.8 | 34.8 | 34.4 | 32.2 | 28.6 | 20.9 |
| 8500.0 | 92.7 | 92.7 | 92.8 | 92.7 | 91.5 | 91.5 | 102.4 | 35.8 | 34.8 | 33.0 | 30.2 | 25.3 | 16.7 | 15.5 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 68 mA, $I_{EN}$ = 2.04 mA @ Temperature = + 105°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.2 | -32.3 | -1.9 | -4.8 | 1.5 | 1.0 | 18.6 | 20.2 | 5.7 | 29.5 | 29.4 | 29.2 | 29.5 | 29.5 | 29.2 | 29.1 |
| 300.00 | 18.9 | -27.5 | -5.6 | -8.9 | 1.2 | 0.8 | 18.9 | 20.3 | 3.2 | 29.9 | 29.7 | 30.6 | 30.3 | 30.3 | 30.1 | 29.9 |
| 400.00 | 20.4 | -26.2 | -11.0 | -15.1 | 1.2 | 0.7 | 19.4 | 20.7 | 2.4 | 29.5 | 32.0 | 30.8 | 31.4 | 31.5 | 31.2 | 31.0 |
| 500.00 | 20.8 | -25.6 | -16.8 | -21.0 | 1.1 | 0.7 | 19.7 | 20.8 | 2.1 | 29.8 | 31.0 | 31.3 | 31.6 | 31.5 | 31.2 | 31.0 |
| 600.00 | 20.9 | -25.6 | -20.0 | -21.9 | 1.1 | 0.7 | 20.0 | 20.9 | 1.9 | 30.1 | 31.3 | 32.3 | 32.2 | 32.2 | 32.1 | 31.8 |
| 700.00 | 20.9 | -25.6 | -19.6 | -20.8 | 1.1 | 0.7 | 20.1 | 21.1 | 1.8 | 31.1 | 31.9 | 31.5 | 31.9 | 31.6 | 31.6 | 31.3 |
| 800.00 | 21.0 | -25.6 | -18.6 | -20.3 | 1.1 | 0.7 | 20.2 | 21.1 | 1.8 | 31.4 | 31.7 | 31.6 | 31.3 | 31.2 | 31.1 | 30.9 |
| 900.00 | 21.0 | -25.6 | -17.7 | -20.2 | 1.1 | 0.7 | 20.3 | 21.3 | 1.8 | 31.1 | 31.4 | 31.4 | 31.6 | 31.4 | 31.3 | 31.2 |
| 1000.00 | 21.0 | -25.7 | -17.2 | -20.5 | 1.1 | 0.7 | 20.4 | 21.3 | 1.8 | 31.1 | 31.6 | 32.0 | 32.0 | 32.1 | 31.8 | 31.7 |
| 1100.00 | 20.9 | -25.7 | -16.9 | -21.2 | 1.1 | 0.7 | 20.3 | 21.2 | 1.8 | 32.3 | 32.2 | 31.6 | 31.5 | 31.5 | 31.4 | 31.2 |
| 1200.00 | 20.9 | -25.8 | -16.6 | -22.4 | 1.1 | 0.7 | 20.4 | 21.4 | 1.8 | 31.7 | 31.6 | 31.3 | 31.4 | 31.3 | 31.1 | 30.9 |
| 1300.00 | 21.0 | -25.8 | -16.3 | -24.0 | 1.2 | 0.7 | 20.4 | 21.4 | 1.8 | 31.5 | 30.8 | 30.5 | 30.7 | 30.7 | 30.6 | 30.5 |
| 1400.00 | 20.9 | -25.8 | -16.1 | -26.0 | 1.2 | 0.7 | 20.3 | 21.3 | 1.8 | 31.7 | 31.2 | 31.4 | 31.2 | 31.2 | 31.1 | 31.0 |
| 1500.00 | 20.9 | -26.0 | -15.7 | -28.5 | 1.2 | 0.7 | 20.3 | 21.5 | 1.9 | 30.3 | 29.6 | 30.1 | 30.0 | 29.9 | 29.8 | 29.6 |
| 1600.00 | 20.9 | -26.0 | -15.1 | -30.6 | 1.2 | 0.7 | 20.3 | 21.5 | 1.9 | 30.1 | 30.7 | 30.4 | 30.6 | 30.5 | 30.4 | 30.2 |
| 1700.00 | 20.9 | -26.1 | -14.6 | -29.0 | 1.2 | 0.7 | 20.4 | 21.6 | 1.9 | 30.6 | 30.0 | 29.8 | 30.1 | 29.9 | 29.8 | 29.7 |
| 1800.00 | 20.9 | -26.1 | -14.2 | -26.2 | 1.2 | 0.7 | 20.2 | 21.5 | 1.9 | 30.1 | 30.0 | 30.0 | 30.0 | 29.8 | 29.7 | 29.6 |
| 1900.00 | 20.9 | -26.3 | -13.6 | -23.4 | 1.2 | 0.7 | 20.1 | 21.5 | 2.0 | 29.7 | 30.2 | 29.1 | 29.0 | 28.9 | 28.7 | 28.6 |
| 2000.00 | 20.9 | -26.3 | -13.0 | -21.1 | 1.2 | 0.8 | 19.9 | 21.4 | 2.0 | 29.5 | 29.3 | 29.4 | 29.5 | 29.3 | 29.1 | 29.0 |
| 2100.00 | 20.8 | -26.5 | -12.5 | -19.4 | 1.2 | 0.8 | 20.0 | 21.6 | 2.1 | 29.0 | 29.2 | 29.1 | 29.0 | 29.1 | 28.9 | 28.8 |
| 2200.00 | 20.8 | -26.5 | -11.9 | -18.1 | 1.2 | 0.8 | 19.8 | 21.5 | 2.1 | 29.5 | 30.3 | 30.1 | 29.7 | 29.6 | 29.5 | 29.3 |
| 2300.00 | 20.8 | -26.6 | -11.4 | -16.8 | 1.2 | 0.8 | 19.8 | 21.6 | 2.1 | 29.5 | 29.7 | 29.2 | 29.2 | 29.2 | 29.0 | 28.8 |
| 2400.00 | 20.7 | -26.8 | -10.9 | -15.7 | 1.2 | 0.8 | 19.6 | 21.7 | 2.1 | 28.3 | 28.7 | 28.0 | 27.9 | 27.8 | 27.6 | 27.5 |
| 2500.00 | 20.7 | -26.9 | -10.5 | -14.9 | 1.2 | 0.8 | 19.5 | 21.7 | 2.2 | 28.0 | 28.3 | 27.8 | 27.9 | 27.7 | 27.6 | 27.4 |
| 2600.00 | 20.6 | -27.1 | -10.2 | -14.2 | 1.2 | 0.8 | 19.3 | 21.7 | 2.2 | 27.1 | 27.2 | 27.7 | 27.6 | 27.5 | 27.3 | 27.1 |
| 2700.00 | 20.6 | -27.2 | -9.8 | -13.6 | 1.2 | 0.8 | 18.9 | 21.3 | 2.3 | 28.7 | 28.1 | 28.4 | 28.1 | 28.0 | 27.8 | 27.6 |
| 2800.00 | 20.5 | -27.3 | -9.5 | -13.0 | 1.3 | 0.8 | 18.9 | 21.2 | 2.3 | 27.4 | 27.7 | 27.8 | 27.6 | 27.5 | 27.3 | 27.1 |
| 2900.00 | 20.5 | -27.4 | -9.2 | -12.5 | 1.3 | 0.8 | 18.6 | 21.1 | 2.4 | 27.1 | | 26.7 | 26.6 | 26.4 | 26.2 | 25.9 |
| 3000.00 | 20.4 | -27.5 | -9.0 | -12.1 | 1.3 | 0.8 | 18.8 | 21.3 | 2.5 | 26.5 | 26.9 | 26.8 | 26.8 | 26.6 | 26.3 | 26.1 |
| 3100.00 | 20.4 | -27.5 | -8.7 | -11.8 | 1.3 | 0.8 | 18.6 | 21.5 | 2.4 | 26.6 | 27.0 | 26.3 | 26.3 | 26.1 | 25.9 | 25.6 |
| 3200.00 | 20.4 | -27.6 | -8.6 | -11.5 | 1.3 | 0.8 | 18.6 | 21.4 | 2.4 | 27.6 | 27.2 | 26.7 | 26.7 | 26.5 | 26.3 | 26.0 |
| 3300.00 | 20.4 | -27.7 | -8.5 | -11.4 | 1.3 | 0.8 | 18.4 | 21.2 | 2.4 | 26.2 | 27.0 | 26.7 | 26.5 | 26.3 | 26.1 | 25.9 |
| 3400.00 | 20.4 | -27.7 | -8.4 | -11.3 | 1.3 | 0.8 | 18.3 | 21.1 | 2.4 | 27.7 | 26.7 | 27.1 | 27.0 | 26.9 | 26.6 | 26.4 |
| 3500.00 | 20.4 | -27.8 | -8.4 | -11.3 | 1.3 | 0.8 | 18.4 | 21.3 | 2.4 | 26.7 | 26.5 | 26.4 | 26.2 | 26.1 | 25.8 | 25.7 |
| 3600.00 | 20.5 | -27.8 | -8.4 | -11.4 | 1.3 | 0.8 | 18.4 | 21.4 | 2.3 | 26.3 | 26.1 | 26.3 | 26.2 | 26.0 | 25.8 | 25.6 |
| 3700.00 | 20.5 | -27.8 | -8.4 | -11.5 | 1.3 | 0.8 | 18.7 | 21.5 | 2.4 | 27.2 | 27.1 | 27.5 | 27.3 | 27.2 | 27.0 | 26.7 |
| 3800.00 | 20.5 | -27.9 | -8.6 | -11.7 | 1.3 | 0.8 | 18.7 | 21.5 | 2.3 | 26.4 | 26.8 | 26.4 | 26.2 | 26.1 | 25.8 | 25.6 |
| 3900.00 | 20.6 | -27.9 | -8.8 | -12.0 | 1.3 | 0.8 | 18.8 | 21.6 | 2.3 | 26.5 | 26.9 | 26.5 | 26.5 | 26.3 | 26.1 | 25.8 |
| 4000.00 | 20.6 | -27.9 | -9.0 | -12.3 | 1.3 | 0.8 | 18.7 | 21.7 | 2.3 | 28.5 | 26.8 | 27.0 | 26.8 | 26.8 | 26.5 | 26.2 |
| 4100.00 | 20.7 | -28.0 | -9.3 | -12.7 | 1.3 | 0.8 | 18.8 | 21.8 | 2.3 | 26.5 | 26.2 | 26.6 | 26.5 | 26.3 | 26.0 | 25.7 |
| 4200.00 | 20.8 | -27.9 | -9.5 | -13.2 | 1.3 | 0.8 | 18.8 | 21.7 | 2.3 | 26.3 | 26.6 | 26.4 | 26.4 | 26.3 | 26.0 | 25.7 |
| 4300.00 | 20.8 | -28.0 | -9.8 | -13.6 | 1.3 | 0.8 | 18.6 | 21.7 | 2.3 | 27.1 | 26.4 | 26.7 | 26.5 | 26.4 | 26.2 | 25.9 |
| 4400.00 | 20.9 | -28.1 | -10.3 | -14.2 | 1.3 | 0.8 | 18.6 | 21.7 | 2.3 | 26.6 | 26.5 | 26.6 | 26.2 | 26.0 | 25.8 | 25.5 |
| 4500.00 | 21.0 | -28.0 | -10.7 | -14.7 | 1.3 | 0.8 | 18.3 | 21.7 | 2.3 | 26.2 | 26.4 | 26.3 | 26.1 | 26.0 | 25.6 | 25.3 |
| 4600.00 | 21.0 | -28.1 | -11.2 | -15.2 | 1.3 | 0.8 | 18.0 | 21.5 | 2.3 | 25.6 | 26.4 | 26.1 | 25.9 | 25.8 | 25.4 | 25.1 |
| 4700.00 | 21.1 | -28.1 | -11.7 | -15.9 | 1.3 | 0.8 | 18.1 | 21.5 | 2.3 | 26.2 | 25.8 | 25.8 | 25.7 | 25.5 | 25.2 | 24.8 |
| 4800.00 | 21.1 | -28.2 | -12.0 | -16.2 | 1.3 | 0.8 | 18.4 | 21.4 | 2.3 | 26.5 | 26.5 | 26.4 | 26.3 | 26.1 | 25.8 | 25.5 |
| 4900.00 | 21.1 | -28.4 | -12.7 | -16.7 | 1.4 | 0.8 | 18.3 | 21.4 | 2.3 | 25.9 | 26.2 | 25.7 | 25.7 | 25.4 | 25.1 | 24.7 |
| 5000.00 | 21.2 | -28.3 | -13.0 | -17.3 | 1.4 | 0.8 | 18.3 | 21.3 | 2.3 | 25.9 | 25.8 | 25.6 | 25.3 | 25.1 | 24.8 | 24.5 |
| 5100.00 | 21.3 | -28.4 | -13.1 | -17.5 | 1.4 | 0.8 | 18.7 | 21.3 | 2.3 | 26.4 | 26.2 | 25.6 | 25.4 | 25.2 | 24.9 | 24.7 |
| 5200.00 | 21.2 | -28.5 | -13.6 | -17.8 | 1.4 | 0.8 | 18.7 | 21.2 | 2.3 | 25.6 | 26.1 | 25.8 | 25.7 | 25.5 | 25.3 | 25.1 |
| 5300.00 | 21.3 | -28.6 | -13.3 | -17.8 | 1.4 | 0.8 | 18.2 | 21.2 | 2.3 | 25.9 | 26.6 | 25.7 | 25.5 | 25.2 | 25.0 | 24.8 |
| 5400.00 | 21.3 | -28.9 | -13.2 | -17.4 | 1.4 | 0.9 | 17.5 | 21.0 | 2.3 | 25.9 | 26.0 | 25.5 | 25.3 | 25.1 | 24.8 | 24.6 |
| 5500.00 | 21.3 | -28.8 | -13.2 | -17.8 | 1.4 | 0.9 | 17.0 | 20.7 | 2.3 | 24.8 | 25.7 | 24.7 | 24.4 | 24.1 | 23.8 | 23.7 |
| 5600.00 | 21.3 | -29.0 | -12.2 | -17.1 | 1.4 | 0.9 | 16.5 | 20.2 | 2.3 | 25.4 | 25.4 | 24.9 | 24.6 | 24.2 | 23.7 | 23.5 |
| 5700.00 | 21.1 | -29.3 | -11.8 | -16.4 | 1.5 | 0.9 | 16.5 | 19.9 | 2.4 | 24.4 | 25.7 | 24.0 | 23.7 | 23.2 | 22.7 | 22.7 |
| 5800.00 | 21.2 | -29.3 | -11.2 | -16.4 | 1.4 | 0.9 | 16.7 | 19.5 | 2.4 | 24.4 | 24.8 | 24.0 | 23.7 | 23.2 | 22.7 | 22.8 |
| 5900.00 | 21.1 | -29.6 | -10.1 | -15.1 | 1.5 | 0.9 | 16.9 | 19.2 | 2.4 | 24.6 | 24.4 | 24.3 | 24.0 | 23.6 | 23.0 | 23.1 |
| 6000.00 | 20.9 | -29.7 | -9.9 | -14.9 | 1.5 | 0.9 | 16.9 | 18.8 | 2.5 | 24.5 | 24.5 | 24.0 | 23.7 | 23.2 | 22.7 | 22.7 |
| 6100.00 | 21.0 | -29.9 | -8.9 | -14.2 | 1.5 | 0.9 | 17.0 | 18.7 | 2.6 | 25.0 | 24.6 | 24.3 | 24.1 | 23.7 | 23.2 | 23.2 |
| 6200.00 | 20.7 | -30.4 | -8.1 | -13.0 | 1.5 | 1.0 | 17.1 | 18.6 | 2.6 | 24.2 | 23.7 | 24.1 | 23.8 | 23.4 | 23.0 | 22.9 |
| 6300.00 | 20.6 | -30.4 | -7.7 | -12.7 | 1.5 | 1.0 | 17.0 | 18.4 | 2.6 | 23.6 | 24.1 | 23.5 | 23.2 | 22.8 | 22.5 | 22.7 |
| 6400.00 | 20.5 | -30.9 | -6.9 | -11.7 | 1.6 | 1.0 | 17.0 | 18.3 | 2.7 | 24.4 | 24.0 | 24.0 | 23.6 | 23.3 | 23.0 | 23.0 |
| 6500.00 | 20.2 | -31.6 | -6.4 | -11.0 | 1.6 | 1.0 | 17.2 | 18.4 | 2.8 | 24.0 | 23.3 | 23.7 | 23.3 | 22.9 | 22.6 | 22.7 |
| 6600.00 | 20.0 | -31.7 | -5.9 | -10.6 | 1.6 | 1.0 | 17.2 | 18.5 | 2.8 | 23.6 | 23.2 | 23.2 | 22.9 | 22.5 | 22.2 | 22.5 |
| 6700.00 | 19.7 | -32.3 | -5.3 | -9.7 | 1.7 | 1.1 | 17.0 | 18.2 | 2.8 | 23.6 | 22.9 | 23.3 | 22.9 | 22.6 | 22.3 | 22.5 |
| 6800.00 | 19.3 | -33.0 | -4.9 | -9.1 | 1.8 | 1.1 | 17.0 | 18.1 | 2.9 | 23.2 | 23.9 | 22.7 | 22.3 | 22.0 | 21.8 | 22.3 |
| 6900.00 | 19.1 | -33.4 | -4.5 | -8.7 | 1.8 | 1.1 | 16.8 | 17.9 | 2.9 | 22.9 | 22.2 | 22.5 | 22.1 | 21.8 | 21.7 | 22.2 |
| 7000.00 | 18.6 | -34.4 | -4.1 | -8.1 | 2.0 | 1.1 | 16.7 | 17.7 | 2.9 | 22.8 | 22.8 | 22.3 | 21.9 | 21.6 | 21.5 | 22.1 |
| 7100.00 | 18.1 | -35.3 | -4.0 | -7.7 | 2.2 | 1.1 | 16.4 | 17.3 | 3.0 | 22.8 | 22.6 | 22.3 | 21.9 | 21.6 | 21.5 | 22.2 |
| 7200.00 | 17.7 | -36.1 | -3.7 | -7.3 | 2.4 | 1.1 | 16.0 | 16.9 | 3.0 | 22.6 | 22.2 | 21.9 | 21.5 | 21.2 | 21.3 | 22.0 |
| 7300.00 | 17.0 | -37.6 | -3.5 | -6.9 | 2.8 | 1.1 | 15.7 | 16.5 | 3.0 | 21.7 | 22.5 | 21.1 | 20.7 | 20.5 | 20.9 | 21.7 |
| 7400.00 | 16.4 | -38.3 | -3.5 | -6.7 | 3.2 | 1.1 | 15.3 | 16.1 | 3.0 | 22.3 | 22.3 | 21.7 | 21.3 | 21.0 | 21.3 | 22.1 |
| 7500.00 | 15.8 | -39.9 | -3.3 | -6.5 | 3.8 | 1.1 | 14.8 | 15.6 | 3.0 | 21.1 | 21.4 | 20.4 | 20.0 | 20.0 | 20.6 | 20.5 |
| 7600.00 | 15.0 | -41.4 | -3.4 | -6.3 | 4.8 | 1.1 | 14.3 | 15.0 | 3.1 | 20.7 | 20.9 | 19.9 | 19.6 | 19.7 | 20.5 | 19.7 |
| 7700.00 | 14.3 | -42.1 | -3.4 | -6.1 | 5.6 | 1.1 | 13.7 | 14.4 | 3.2 | 19.9 | 20.3 | 19.1 | 18.9 | 19.3 | 20.0 | 17.7 |
| 7800.00 | 13.3 | -44.5 | -3.3 | -5.9 | 7.8 | 1.1 | 12.9 | 13.6 | 3.2 | 20.4 | 19.9 | 19.5 | 19.2 | 19.5 | 20.3 | 18.5 |
| 7900.00 | 12.0 | -44.9 | -3.6 | -5.6 | 9.6 | 1.1 | 11.9 | 12.6 | 3.4 | 18.1 | 18.1 | 17.3 | 17.6 | 18.2 | 16.4 | 9.7 |
| 8000.00 | 10.9 | -46.2 | -3.6 | -5.5 | 12.4 | 1.0 | 10.7 | 11.4 | 3.4 | 17.6 | 16.7 | 16.9 | 17.4 | 17.8 | 15.4 | 8.3 |

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 68 mA, $I_{EN}$ = 2.04 mA @ Temperature = + 105°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 38.4 | 38.3 | 38.3 | 38.2 | 38.0 | 37.7 | 37.5 |
| 1000.0 | 37.6 | 37.5 | 37.5 | 37.4 | 37.2 | 36.9 | 36.5 |
| 2000.0 | 37.4 | 37.0 | 36.8 | 36.6 | 36.3 | 35.9 | 35.6 |
| 4000.0 | 43.2 | 43.1 | 42.9 | 42.7 | 42.3 | 42.1 | 42.0 |
| 6000.0 | 32.8 | 32.6 | 32.4 | 31.9 | 31.6 | 31.2 | 31.0 |
| 8000.0 | 36.8 | 36.3 | 36.0 | 36.2 | 37.2 | 39.3 | 41.9 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = +4.75 V, $I_{DD}$ = 74 mA, $I_{EN}$ = 2.02 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 20.5 | -29.7 | -8.7 | -8.0 | 1.4 | 0.8 | 16.7 | 20.6 | 2.2 | 26.2 | 26.0 | 26.1 | 25.9 | 25.6 | 25.3 | 24.8 |
| 5600.00 | 20.6 | -29.8 | -8.5 | -8.1 | 1.4 | 0.8 | 16.3 | 20.3 | 2.1 | 25.0 | 24.9 | 24.7 | 24.5 | 24.2 | 23.7 | 23.3 |
| 5700.00 | 20.6 | -29.8 | -8.8 | -8.3 | 1.4 | 0.8 | 16.1 | 20.0 | 2.1 | 25.2 | 25.8 | 25.1 | 24.8 | 24.5 | 24.0 | 23.5 |
| 5800.00 | 20.7 | -29.8 | -8.5 | -8.3 | 1.4 | 0.8 | 16.3 | 19.7 | 2.1 | 25.2 | 25.2 | 25.1 | 24.9 | 24.6 | 24.1 | 23.6 |
| 5900.00 | 20.7 | -29.9 | -8.7 | -8.6 | 1.5 | 0.8 | 16.3 | 19.3 | 2.1 | 24.8 | 25.3 | 25.0 | 24.6 | 24.3 | 23.8 | 23.3 |
| 6000.00 | 20.8 | -29.8 | -8.4 | -8.6 | 1.4 | 0.8 | 16.5 | 19.0 | 2.1 | 24.2 | 23.8 | 23.7 | 23.4 | 23.0 | 22.4 | 22.4 |
| 6100.00 | 20.9 | -29.9 | -8.7 | -8.9 | 1.5 | 0.8 | 17.1 | 19.1 | 2.1 | 24.8 | 24.9 | 24.7 | 24.5 | 24.2 | 23.8 | 23.5 |
| 6200.00 | 21.0 | -30.1 | -8.4 | -8.9 | 1.5 | 0.8 | 17.3 | 19.1 | 2.1 | 24.4 | 24.6 | 24.3 | 24.1 | 23.8 | 23.4 | 23.3 |
| 6300.00 | 20.9 | -30.1 | -8.6 | -9.3 | 1.5 | 0.8 | 17.6 | 19.2 | 2.1 | 25.6 | 25.5 | 25.3 | 25.2 | 25.0 | 24.8 | 24.6 |
| 6400.00 | 21.0 | -30.4 | -8.3 | -9.3 | 1.5 | 0.8 | 17.8 | 19.3 | 2.2 | 25.5 | 25.6 | 25.2 | 25.1 | 24.9 | 24.7 | 24.6 |
| 6500.00 | 21.0 | -30.3 | -8.5 | -9.7 | 1.5 | 0.8 | 17.9 | 19.2 | 2.2 | 25.8 | 25.5 | 25.3 | 25.3 | 25.1 | 24.9 | 24.8 |
| 6600.00 | 21.1 | -30.6 | -8.3 | -9.7 | 1.5 | 0.9 | 18.1 | 19.4 | 2.2 | 25.4 | 25.5 | 25.5 | 25.3 | 25.2 | 25.0 | 24.9 |
| 6700.00 | 21.0 | -30.7 | -8.6 | -10.2 | 1.6 | 0.9 | 18.0 | 19.3 | 2.2 | 25.3 | 25.6 | 25.3 | 25.3 | 25.1 | 25.0 | 24.9 |
| 6800.00 | 21.1 | -31.1 | -8.4 | -10.3 | 1.6 | 0.9 | 18.2 | 19.4 | 2.2 | 25.9 | 26.1 | 25.8 | 25.7 | 25.5 | 25.4 | 25.4 |
| 6900.00 | 21.0 | -31.1 | -8.6 | -10.8 | 1.6 | 0.9 | 18.3 | 19.4 | 2.2 | 26.1 | 26.3 | 26.0 | 25.9 | 25.9 | 25.8 | 25.8 |
| 7000.00 | 21.0 | -31.4 | -8.4 | -10.9 | 1.7 | 0.9 | 18.3 | 19.4 | 2.3 | 26.2 | 25.8 | 25.6 | 25.6 | 25.4 | 25.4 | 25.4 |
| 7100.00 | 20.9 | -31.5 | -8.7 | -11.5 | 1.7 | 0.9 | 18.3 | 19.4 | 2.3 | 26.3 | 26.6 | 26.1 | 26.0 | 25.8 | 25.8 | 25.8 |
| 7200.00 | 20.9 | -32.0 | -8.5 | -11.7 | 1.8 | 1.0 | 18.3 | 19.4 | 2.4 | 26.4 | 25.7 | 26.0 | 26.0 | 25.9 | 25.9 | 26.0 |
| 7300.00 | 20.8 | -32.2 | -8.7 | -12.4 | 1.9 | 1.0 | 18.2 | 19.3 | 2.4 | 25.9 | 25.6 | 25.6 | 25.4 | 25.5 | 25.5 | 25.6 |
| 7400.00 | 20.7 | -32.6 | -8.4 | -12.7 | 2.0 | 1.0 | 18.3 | 19.3 | 2.5 | 25.9 | 25.9 | 25.7 | 25.6 | 25.6 | 25.6 | 25.8 |
| 7500.00 | 20.4 | -32.9 | -8.6 | -13.6 | 2.1 | 1.0 | 18.0 | 19.0 | 2.5 | 26.3 | 26.0 | 25.9 | 25.8 | 25.8 | 25.9 | 26.0 |
| 7600.00 | 20.3 | -33.7 | -8.2 | -13.8 | 2.3 | 1.0 | 17.9 | 18.9 | 2.6 | 26.3 | 26.1 | 26.0 | 25.8 | 25.8 | 25.8 | 25.8 |
| 7700.00 | 19.9 | -33.8 | -8.3 | -14.9 | 2.4 | 1.1 | 17.9 | 18.8 | 2.7 | 24.8 | 24.8 | 24.8 | 24.6 | 24.6 | 24.6 | 24.7 |
| 7800.00 | 19.6 | -34.8 | -7.7 | -14.8 | 2.7 | 1.1 | 17.7 | 18.5 | 2.8 | 25.9 | 26.2 | 25.9 | 25.7 | 25.7 | 25.7 | 25.8 |
| 7900.00 | 19.1 | -35.1 | -7.6 | -15.6 | 2.9 | 1.1 | 17.4 | 18.3 | 2.9 | 25.9 | 25.4 | 25.9 | 25.8 | 25.8 | 25.8 | 25.9 |
| 8000.00 | 18.5 | -36.4 | -6.8 | -14.7 | 3.4 | 1.2 | 17.1 | 18.0 | 3.1 | 25.1 | 25.3 | 25.2 | 25.2 | 25.2 | 25.3 | 25.3 |
| 8100.00 | 17.9 | -36.7 | -6.5 | -14.7 | 3.6 | 1.2 | 17.0 | 17.8 | 3.2 | 25.7 | 25.4 | 25.5 | 25.2 | 25.2 | 25.3 | 25.1 |
| 8200.00 | 17.1 | -38.3 | -5.6 | -13.1 | 4.3 | 1.2 | 16.6 | 17.4 | 3.4 | 25.4 | | 24.9 | 24.6 | 24.5 | 24.4 | 23.7 |
| 8300.00 | 16.4 | -38.5 | -5.3 | -12.3 | 4.6 | 1.2 | 16.3 | 17.1 | 3.5 | 25.5 | 25.1 | 25.0 | 25.0 | 24.9 | 24.8 | 24.2 |
| 8400.00 | 15.1 | -40.3 | -4.5 | -10.6 | 5.7 | 1.2 | 15.8 | 16.7 | 3.7 | 26.7 | 25.4 | 25.6 | 25.4 | 25.3 | 25.0 | 24.2 |
| 8500.00 | 14.3 | -40.8 | -4.2 | -9.7 | 6.2 | 1.2 | 15.3 | 16.1 | 4.0 | 25.1 | 24.6 | 24.4 | 24.1 | 23.8 | 23.1 | 21.0 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 35.5 | 35.4 | 35.1 | 34.9 | 34.6 | 34.2 | 33.9 |
| 6000.0 | 33.9 | 33.7 | 33.4 | 33.1 | 32.7 | 32.3 | 32.0 |
| 7000.0 | 44.0 | 43.8 | 43.6 | 43.3 | 43.0 | 42.7 | 42.7 |
| 8000.0 | 51.9 | 51.8 | 51.5 | 51.2 | 50.8 | 50.5 | 50.6 |
| 8500.0 | 59.8 | 59.5 | 59.2 | 58.8 | 58.5 | 58.5 | 59.2 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.1 | 1.1 | 0.9 | 3.9 |
| 300.00 | -2.4 | -2.5 | -6.7 | -11.9 | 1.0 | 0.7 | 2.6 |
| 400.00 | -1.8 | -1.8 | -9.4 | -14.0 | 1.0 | 0.6 | 2.1 |
| 500.00 | -1.5 | -1.5 | -12.1 | -15.8 | 1.0 | 0.5 | 1.6 |
| 600.00 | -1.3 | -1.4 | -15.0 | -17.0 | 1.0 | 0.5 | 1.5 |
| 700.00 | -1.2 | -1.3 | -18.2 | -17.8 | 1.0 | 0.5 | 1.6 |
| 800.00 | -1.2 | -1.3 | -22.2 | -18.0 | 1.0 | 0.4 | 1.4 |
| 900.00 | -1.2 | -1.3 | -27.4 | -17.7 | 1.0 | 0.4 | 1.4 |
| 1000.00 | -1.1 | -1.3 | -30.9 | -17.4 | 1.0 | 0.4 | 1.5 |
| 1100.00 | -1.1 | -1.3 | -26.6 | -17.1 | 1.0 | 0.4 | 1.6 |
| 1200.00 | -1.2 | -1.3 | -23.0 | -16.8 | 1.0 | 0.4 | 1.4 |
| 1300.00 | -1.2 | -1.3 | -20.6 | -16.4 | 1.0 | 0.4 | 1.4 |
| 1400.00 | -1.2 | -1.3 | -18.8 | -15.9 | 1.0 | 0.4 | 1.3 |
| 1500.00 | -1.2 | -1.4 | -17.4 | -15.6 | 1.0 | 0.5 | 1.6 |
| 1600.00 | -1.3 | -1.4 | -16.3 | -15.4 | 1.0 | 0.5 | 1.6 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.4 | 1.0 | 0.5 | 1.6 |
| 1800.00 | -1.4 | -1.5 | -14.7 | -15.3 | 1.0 | 0.5 | 1.6 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 1.9 |
| 2000.00 | -1.4 | -1.6 | -13.8 | -15.0 | 1.0 | 0.5 | 1.9 |
| 2100.00 | -1.5 | -1.7 | -13.5 | -15.2 | 1.0 | 0.5 | 1.7 |
| 2200.00 | -1.5 | -1.7 | -13.3 | -15.4 | 1.0 | 0.5 | 1.9 |
| 2300.00 | -1.5 | -1.8 | -13.1 | -15.6 | 1.0 | 0.6 | 2.0 |
| 2400.00 | -1.5 | -1.8 | -13.0 | -15.8 | 1.0 | 0.6 | 2.1 |
| 2500.00 | -1.6 | -1.9 | -13.0 | -16.2 | 1.1 | 0.6 | 2.1 |
| 2600.00 | -1.6 | -1.9 | -13.1 | -16.8 | 1.1 | 0.6 | 2.2 |
| 2700.00 | -1.6 | -2.0 | -13.1 | -17.5 | 1.1 | 0.6 | 2.3 |
| 2800.00 | -1.6 | -2.0 | -13.3 | -18.2 | 1.1 | 0.6 | 2.4 |
| 2900.00 | -1.6 | -2.0 | -13.4 | -19.0 | 1.1 | 0.6 | 2.2 |
| 3000.00 | -1.7 | -2.1 | -13.6 | -20.1 | 1.1 | 0.6 | 2.2 |
| 3100.00 | -1.7 | -2.1 | -13.7 | -21.5 | 1.1 | 0.6 | 2.5 |
| 3200.00 | -1.7 | -2.1 | -13.8 | -23.3 | 1.1 | 0.7 | 2.2 |
| 3300.00 | -1.7 | -2.1 | -13.9 | -24.9 | 1.1 | 0.7 | 2.2 |
| 3400.00 | -1.7 | -2.1 | -14.0 | -26.7 | 1.1 | 0.7 | 2.4 |
| 3500.00 | -1.7 | -2.1 | -14.0 | -27.7 | 1.1 | 0.7 | 2.5 |
| 3600.00 | -1.7 | -2.1 | -13.9 | -26.2 | 1.1 | 0.7 | 2.3 |
| 3700.00 | -1.7 | -2.1 | -13.8 | -23.9 | 1.1 | 0.7 | 2.2 |
| 3800.00 | -1.7 | -2.1 | -13.6 | -21.9 | 1.1 | 0.7 | 2.4 |
| 3900.00 | -1.8 | -2.1 | -13.4 | -20.2 | 1.1 | 0.7 | 2.5 |
| 4000.00 | -1.8 | -2.1 | -13.1 | -18.7 | 1.1 | 0.7 | 2.5 |
| 4100.00 | -1.8 | -2.2 | -12.8 | -17.3 | 1.1 | 0.7 | 2.1 |
| 4200.00 | -1.8 | -2.2 | -12.5 | -16.2 | 1.1 | 0.6 | 2.6 |
| 4300.00 | -1.8 | -2.2 | -12.3 | -15.4 | 1.1 | 0.6 | 2.1 |
| 4400.00 | -1.9 | -2.2 | -12.0 | -14.7 | 1.1 | 0.6 | 2.0 |
| 4500.00 | -1.9 | -2.3 | -11.8 | -14.0 | 1.1 | 0.6 | 2.4 |
| 4600.00 | -1.9 | -2.3 | -11.6 | -13.5 | 1.1 | 0.6 | 2.4 |
| 4700.00 | -1.9 | -2.3 | -11.4 | -13.0 | 1.1 | 0.6 | 2.0 |
| 4800.00 | -1.9 | -2.4 | -11.3 | -12.7 | 1.1 | 0.6 | 2.2 |
| 4900.00 | -1.9 | -2.4 | -11.2 | -12.5 | 1.1 | 0.6 | 2.6 |
| 5000.00 | -1.9 | -2.4 | -11.1 | -12.1 | 1.1 | 0.6 | 2.6 |
| 5100.00 | -1.9 | -2.4 | -11.1 | -12.0 | 1.1 | 0.6 | 2.2 |
| 5200.00 | -1.9 | -2.4 | -11.0 | -11.8 | 1.1 | 0.6 | 2.3 |
| 5300.00 | -1.9 | -2.4 | -11.0 | -11.8 | 1.1 | 0.6 | 1.9 |
| 5400.00 | -1.9 | -2.5 | -11.1 | -11.7 | 1.1 | 0.6 | 2.3 |
| 5500.00 | -1.9 | -2.5 | -11.1 | -11.5 | 1.1 | 0.6 | 2.0 |
| 5600.00 | -1.9 | -2.5 | -11.3 | -11.7 | 1.1 | 0.6 | 2.1 |
| 5700.00 | -1.9 | -2.5 | -11.4 | -11.7 | 1.1 | 0.6 | 1.8 |
| 5800.00 | -1.8 | -2.4 | -11.6 | -11.7 | 1.1 | 0.6 | 1.9 |
| 5900.00 | -1.8 | -2.4 | -11.9 | -11.9 | 1.1 | 0.6 | 2.0 |
| 6000.00 | -1.8 | -2.4 | -12.0 | -11.9 | 1.1 | 0.6 | 1.7 |
| 6100.00 | -1.7 | -2.4 | -12.4 | -12.1 | 1.1 | 0.6 | 2.4 |
| 6200.00 | -1.8 | -2.4 | -12.8 | -12.4 | 1.1 | 0.6 | 1.8 |
| 6300.00 | -1.7 | -2.4 | -13.0 | -12.4 | 1.1 | 0.6 | 2.3 |
| 6400.00 | -1.7 | -2.4 | -13.5 | -12.7 | 1.1 | 0.6 | 2.5 |
| 6500.00 | -1.7 | -2.4 | -13.8 | -12.8 | 1.1 | 0.6 | 2.4 |
| 6600.00 | -1.6 | -2.4 | -14.0 | -12.9 | 1.1 | 0.6 | 2.7 |
| 6700.00 | -1.6 | -2.4 | -14.6 | -13.3 | 1.1 | 0.6 | 2.5 |
| 6800.00 | -1.7 | -2.4 | -14.8 | -13.4 | 1.1 | 0.6 | 2.8 |
| 6900.00 | -1.6 | -2.4 | -14.9 | -13.4 | 1.1 | 0.6 | 2.7 |
| 7000.00 | -1.7 | -2.4 | -15.2 | -13.6 | 1.1 | 0.6 | 2.7 |
| 7100.00 | -1.7 | -2.4 | -15.1 | -13.6 | 1.1 | 0.6 | 2.6 |
| 7200.00 | -1.7 | -2.4 | -15.0 | -13.6 | 1.1 | 0.6 | 2.9 |
| 7300.00 | -1.8 | -2.5 | -14.8 | -13.5 | 1.1 | 0.6 | 3.0 |
| 7400.00 | -1.8 | -2.6 | -14.2 | -13.1 | 1.1 | 0.6 | 3.1 |
| 7500.00 | -1.9 | -2.6 | -13.7 | -12.9 | 1.1 | 0.6 | 2.8 |
| 7600.00 | -2.0 | -2.7 | -13.2 | -12.5 | 1.2 | 0.7 | 2.8 |
| 7700.00 | -2.1 | -2.8 | -12.4 | -11.8 | 1.2 | 0.7 | 2.9 |
| 7800.00 | -2.2 | -2.9 | -11.8 | -11.4 | 1.2 | 0.7 | 2.4 |
| 7900.00 | -2.4 | -3.1 | -11.2 | -10.8 | 1.2 | 0.7 | 3.5 |
| 8000.00 | -2.4 | -3.1 | -10.2 | -10.1 | 1.2 | 0.7 | 3.1 |

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 29.8 | 28.4 | 26.3 | 23.2 | 18.2 | 14.8 | 14.0 |
| 1000.0 | 32.0 | 30.7 | 28.7 | 25.3 | 19.5 | 14.4 | 15.5 |
| 2000.0 | 33.7 | 32.9 | 31.5 | 29.2 | 25.4 | 18.5 | 16.2 |
| 4000.0 | 34.2 | 33.9 | 33.1 | 31.8 | 29.4 | 25.3 | 19.5 |
| 6000.0 | 35.3 | 34.9 | 33.9 | 32.1 | 29.1 | 23.7 | 17.3 |
| 8000.0 | 36.1 | 35.5 | 34.4 | 32.5 | 29.5 | 23.4 | 16.9 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 71.2 | 70.9 | 69.2 | 65.7 | 56.5 | 46.2 | 45.8 |
| 1000.0 | 71.7 | 71.8 | 71.6 | 69.7 | 60.2 | 53.1 | 51.5 |
| 2000.0 | 72.0 | 71.6 | 71.2 | 70.3 | 67.6 | 58.8 | 51.2 |
| 4000.0 | 73.2 | 73.2 | 73.3 | 73.8 | 74.8 | 73.5 | 54.4 |
| 6000.0 | 72.5 | 72.3 | 71.9 | 71.4 | 70.2 | 65.5 | 56.5 |
| 8000.0 | 83.4 | 83.3 | 83.1 | 82.8 | 81.7 | 78.4 | 67.8 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 11.6 | 8.8 |
| 1000.0 | 11.2 | 9.2 |
| 2000.0 | 13.1 | 10.6 |
| 4000.0 | 15.1 | 12.5 |
| 6000.0 | 15.7 | 12.6 |
| 8000.0 | 15.6 | 12.1 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +4.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.7 | -2.4 | -20.4 | -17.5 | 1.1 | 0.7 | 3.0 |
| 5600.00 | -1.7 | -2.4 | -20.9 | -17.3 | 1.1 | 0.7 | 2.8 |
| 5700.00 | -1.7 | -2.4 | -20.7 | -17.0 | 1.1 | 0.7 | 3.0 |
| 5800.00 | -1.7 | -2.4 | -20.1 | -16.4 | 1.1 | 0.7 | 3.0 |
| 5900.00 | -1.7 | -2.5 | -19.2 | -15.9 | 1.1 | 0.7 | 3.0 |
| 6000.00 | -1.7 | -2.5 | -18.4 | -15.3 | 1.1 | 0.7 | 2.9 |
| 6100.00 | -1.7 | -2.5 | -17.2 | -14.6 | 1.1 | 0.7 | 2.9 |
| 6200.00 | -1.7 | -2.5 | -16.4 | -14.0 | 1.1 | 0.7 | 2.9 |
| 6300.00 | -1.7 | -2.6 | -15.3 | -13.3 | 1.1 | 0.7 | 2.9 |
| 6400.00 | -1.8 | -2.6 | -14.6 | -12.8 | 1.1 | 0.7 | 2.8 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.2 | 1.1 | 0.7 | 2.9 |
| 6600.00 | -1.8 | -2.7 | -13.1 | -11.7 | 1.1 | 0.7 | 2.8 |
| 6700.00 | -1.9 | -2.8 | -12.3 | -11.1 | 1.1 | 0.7 | 3.1 |
| 6800.00 | -2.0 | -2.9 | -11.7 | -10.7 | 1.1 | 0.7 | 3.1 |
| 6900.00 | -2.0 | -2.9 | -11.0 | -10.2 | 1.1 | 0.7 | 2.6 |
| 7000.00 | -2.1 | -3.0 | -10.5 | -9.8 | 1.1 | 0.7 | 3.3 |
| 7100.00 | -2.2 | -3.1 | -9.9 | -9.3 | 1.1 | 0.7 | 3.3 |
| 7200.00 | -2.3 | -3.2 | -9.4 | -8.9 | 1.1 | 0.7 | 3.3 |
| 7300.00 | -2.4 | -3.3 | -8.9 | -8.5 | 1.1 | 0.7 | 3.2 |
| 7400.00 | -2.5 | -3.4 | -8.4 | -8.1 | 1.2 | 0.6 | 3.2 |
| 7500.00 | -2.7 | -3.6 | -7.9 | -7.7 | 1.2 | 0.6 | 3.7 |
| 7600.00 | -2.8 | -3.7 | -7.5 | -7.3 | 1.2 | 0.6 | 3.4 |
| 7700.00 | -3.0 | -3.9 | -7.0 | -6.9 | 1.2 | 0.6 | 3.6 |
| 7800.00 | -3.2 | -4.1 | -6.6 | -6.6 | 1.2 | 0.6 | 4.0 |
| 7900.00 | -3.4 | -4.3 | -6.2 | -6.2 | 1.2 | 0.6 | 3.9 |
| 8000.00 | -3.6 | -4.4 | -5.9 | -5.9 | 1.2 | 0.6 | 4.1 |
| 8100.00 | -3.8 | -4.7 | -5.4 | -5.5 | 1.2 | 0.6 | 4.3 |
| 8200.00 | -4.0 | -4.8 | -5.2 | -5.3 | 1.2 | 0.6 | 4.0 |
| 8300.00 | -4.3 | -5.1 | -4.8 | -4.9 | 1.2 | 0.6 | 4.0 |
| 8400.00 | -4.5 | -5.3 | -4.6 | -4.8 | 1.2 | 0.6 | 4.5 |
| 8500.00 | -4.7 | -5.4 | -4.2 | -4.5 | 1.2 | 0.6 | 4.0 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 14.5 | 11.6 |
| 6000.0 | 15.0 | 12.2 |
| 7000.0 | 16.6 | 13.1 |
| 8000.0 | 17.4 | 12.1 |
| 8500.0 | 16.2 | 10.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.4 | 70.4 | 70.2 | 69.9 | 68.5 | 64.4 | 58.7 | 37.5 | 36.8 | 35.6 | 34.9 | 32.7 | 29.2 | 23.2 |
| 6000.0 | 75.2 | 75.2 | 75.1 | 74.9 | 74.5 | 73.0 | 67.5 | 37.5 | 37.2 | 36.3 | 34.2 | 31.5 | 26.7 | 18.0 |
| 7000.0 | 86.1 | 86.0 | 85.8 | 85.4 | 84.7 | 82.2 | 74.2 | 37.7 | 37.4 | 36.8 | 33.9 | 31.4 | 27.5 | 21.7 |
| 8000.0 | 83.7 | 83.7 | 83.6 | 83.3 | 82.7 | 80.9 | 73.9 | 37.3 | 37.0 | 35.9 | 35.6 | 33.6 | 30.3 | 24.2 |
| 8500.0 | 93.7 | 93.7 | 93.9 | 93.8 | 93.3 | 90.2 | 94.6 | 36.1 | 35.5 | 34.1 | 31.4 | 27.0 | 18.1 | 15.6 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 73 mA, $I_{EN}$ = 2.15 mA @ Temperature = + 105°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.4 | -32.6 | -1.9 | -4.8 | 1.5 | 1.0 | 19.1 | 20.7 | 5.7 | 30.2 | 30.6 | 30.4 | 30.6 | 30.4 | 30.4 | 30.5 |
| 300.00 | 19.1 | -27.8 | -5.7 | -8.9 | 1.2 | 0.9 | 19.4 | 20.8 | 3.2 | 30.7 | 32.2 | 31.0 | 31.1 | 30.9 | 31.3 | 31.1 |
| 400.00 | 20.6 | -26.4 | -11.3 | -15.1 | 1.2 | 0.7 | 19.9 | 21.2 | 2.5 | 31.9 | 33.2 | 31.9 | 32.0 | 32.2 | 32.6 | 32.1 |
| 500.00 | 21.0 | -25.9 | -17.3 | -20.6 | 1.2 | 0.7 | 20.2 | 21.2 | 2.1 | 31.7 | 32.0 | 32.3 | 32.2 | 31.7 | 32.7 | 32.4 |
| 600.00 | 21.1 | -25.7 | -20.0 | -20.8 | 1.1 | 0.7 | 20.5 | 21.4 | 2.0 | 32.2 | 32.9 | 33.3 | 33.1 | 32.8 | 33.8 | 33.5 |
| 700.00 | 21.1 | -25.8 | -19.1 | -19.7 | 1.1 | 0.7 | 20.7 | 21.5 | 1.8 | 32.4 | 32.9 | 33.2 | 32.5 | 33.1 | 33.6 | 33.1 |
| 800.00 | 21.1 | -25.8 | -18.0 | -19.1 | 1.1 | 0.7 | 20.8 | 21.6 | 1.8 | 33.0 | 33.2 | 32.3 | 32.3 | 32.4 | 33.3 | 32.7 |
| 900.00 | 21.1 | -25.8 | -17.3 | -19.0 | 1.1 | 0.7 | 20.8 | 21.7 | 1.9 | 32.2 | 33.1 | 32.7 | 32.3 | 32.8 | 32.7 | 32.7 |
| 1000.00 | 21.1 | -25.9 | -16.8 | -19.3 | 1.1 | 0.7 | 20.9 | 21.7 | 1.9 | 33.0 | 33.3 | 33.0 | 32.7 | 32.9 | 33.1 | 33.4 |
| 1100.00 | 21.1 | -25.9 | -16.6 | -19.9 | 1.1 | 0.7 | 20.8 | 21.7 | 1.8 | 34.4 | 33.1 | 32.3 | 32.4 | 32.7 | 32.6 | 32.9 |
| 1200.00 | 21.1 | -26.0 | -16.5 | -20.9 | 1.2 | 0.7 | 20.9 | 21.8 | 1.9 | 32.9 | 32.9 | 32.0 | 32.2 | 32.0 | 32.2 | 32.6 |
| 1300.00 | 21.1 | -26.0 | -16.3 | -22.3 | 1.2 | 0.7 | 20.9 | 21.9 | 1.9 | 32.1 | 32.4 | 32.1 | 31.5 | 31.4 | 31.8 | 32.0 |
| 1400.00 | 21.1 | -26.0 | -16.2 | -23.9 | 1.2 | 0.7 | 20.8 | 21.8 | 1.9 | 31.7 | 32.2 | 32.2 | 32.2 | 31.6 | 32.4 | 32.2 |
| 1500.00 | 21.1 | -26.1 | -15.9 | -26.3 | 1.2 | 0.7 | 20.7 | 21.9 | 1.9 | 30.9 | 31.7 | 31.0 | 30.8 | 30.1 | 31.4 | 31.0 |
| 1600.00 | 21.1 | -26.2 | -15.5 | -28.9 | 1.2 | 0.7 | 20.8 | 21.9 | 1.9 | 31.7 | 31.7 | 31.9 | 31.4 | 31.0 | 31.5 | 31.2 |
| 1700.00 | 21.1 | -26.3 | -15.1 | -29.2 | 1.2 | 0.7 | 20.9 | 22.1 | 2.0 | 31.6 | 31.0 | 30.8 | 30.6 | 30.6 | 30.9 | 30.7 |
| 1800.00 | 21.1 | -26.3 | -14.7 | -27.7 | 1.2 | 0.7 | 20.7 | 22.0 | 2.0 | 31.1 | 31.7 | 30.9 | 30.8 | 30.9 | 30.7 | 30.8 |
| 1900.00 | 21.1 | -26.4 | -14.1 | -25.1 | 1.2 | 0.7 | 20.6 | 22.0 | 2.1 | 30.5 | 32.5 | 30.1 | 29.8 | 30.6 | 29.7 | 29.6 |
| 2000.00 | 21.1 | -26.5 | -13.6 | -22.5 | 1.2 | 0.7 | 20.3 | 21.8 | 2.1 | 30.6 | 32.2 | 30.5 | 30.3 | 30.3 | 30.2 | 30.2 |
| 2100.00 | 21.1 | -26.6 | -13.0 | -20.6 | 1.2 | 0.8 | 20.5 | 22.1 | 2.1 | 30.3 | 30.3 | 30.5 | 30.1 | 30.1 | 29.9 | 29.9 |
| 2200.00 | 21.0 | -26.7 | -12.5 | -19.1 | 1.2 | 0.8 | 20.3 | 21.9 | 2.1 | 31.2 | 30.7 | 30.7 | 30.6 | 30.2 | 30.2 | 30.3 |
| 2300.00 | 21.0 | -26.8 | -11.9 | -17.7 | 1.2 | 0.8 | 20.3 | 22.1 | 2.1 | 29.3 | 31.4 | 30.3 | 30.1 | 30.3 | 29.7 | 30.0 |
| 2400.00 | 21.0 | -26.9 | -11.4 | -16.5 | 1.2 | 0.8 | 20.1 | 22.1 | 2.2 | 29.0 | 29.7 | 29.4 | 28.8 | 29.1 | 28.4 | 28.3 |
| 2500.00 | 20.9 | -27.1 | -11.0 | -15.6 | 1.2 | 0.8 | 19.9 | 22.1 | 2.2 | 29.1 | 29.7 | 29.0 | 28.7 | 28.8 | 28.3 | 28.2 |
| 2600.00 | 20.9 | -27.1 | -10.6 | -14.8 | 1.2 | 0.8 | 19.7 | 22.1 | 2.2 | 28.3 | 29.4 | 28.8 | 28.3 | 27.8 | 28.1 | 28.0 |
| 2700.00 | 20.8 | -27.3 | -10.2 | -14.1 | 1.2 | 0.8 | 19.4 | 21.8 | 2.3 | 29.8 | 28.9 | 29.2 | 28.8 | 28.3 | 28.6 | 28.4 |
| 2800.00 | 20.8 | -27.4 | -9.9 | -13.5 | 1.2 | 0.8 | 19.4 | 21.6 | 2.3 | 28.3 | 29.8 | 28.7 | 28.4 | 28.5 | 28.1 | 28.1 |
| 2900.00 | 20.7 | -27.5 | -9.6 | -13.0 | 1.3 | 0.8 | 19.1 | 21.5 | 2.3 | 29.1 | | 27.6 | 27.4 | 27.6 | 27.1 | 27.0 |
| 3000.00 | 20.7 | -27.6 | -9.3 | -12.5 | 1.3 | 0.8 | 19.2 | 21.7 | 2.3 | 29.6 | 28.1 | 27.6 | 27.6 | 27.5 | 27.2 | 27.0 |
| 3100.00 | 20.7 | -27.7 | -9.0 | -12.2 | 1.3 | 0.8 | 19.1 | 21.9 | 2.4 | 28.3 | 29.0 | 27.2 | 27.1 | 27.5 | 26.5 | 26.4 |
| 3200.00 | 20.7 | -27.7 | -8.9 | -11.9 | 1.3 | 0.8 | 19.1 | 21.8 | 2.4 | 28.3 | 28.9 | 27.7 | 27.6 | 27.9 | 26.9 | 26.8 |
| 3300.00 | 20.7 | -27.7 | -8.7 | -11.8 | 1.3 | 0.8 | 18.9 | 21.6 | 2.3 | 28.9 | 28.4 | 27.6 | 27.4 | 27.6 | 26.9 | 26.8 |
| 3400.00 | 20.7 | -27.8 | -8.6 | -11.7 | 1.3 | 0.8 | 18.8 | 21.5 | 2.4 | 28.5 | 27.8 | 28.0 | 27.8 | 27.2 | 27.3 | 27.1 |
| 3500.00 | 20.7 | -27.9 | -8.6 | -11.7 | 1.3 | 0.8 | 18.9 | 21.7 | 2.4 | 28.8 | 28.3 | 27.2 | 27.1 | 27.1 | 26.5 | 26.4 |
| 3600.00 | 20.7 | -27.8 | -8.7 | -11.8 | 1.3 | 0.8 | 18.9 | 21.7 | 2.3 | 27.7 | 28.0 | 27.1 | 26.9 | 26.9 | 26.4 | 26.2 |
| 3700.00 | 20.8 | -27.9 | -8.7 | -11.9 | 1.3 | 0.8 | 19.2 | 21.9 | 2.3 | 29.5 | 29.1 | 28.1 | 28.2 | 27.9 | 27.7 | 27.4 |
| 3800.00 | 20.8 | -28.0 | -8.8 | -12.1 | 1.3 | 0.8 | 19.2 | 21.9 | 2.3 | 27.9 | 28.5 | 27.2 | 27.0 | 27.6 | 26.5 | 26.2 |
| 3900.00 | 20.9 | -28.0 | -9.0 | -12.4 | 1.3 | 0.8 | 19.3 | 21.9 | 2.3 | 28.2 | 28.9 | 27.5 | 27.4 | 27.7 | 26.9 | 26.5 |
| 4000.00 | 20.9 | -28.0 | -9.2 | -12.7 | 1.3 | 0.8 | 19.2 | 22.0 | 2.3 | 29.4 | 28.4 | 28.1 | 27.7 | 27.4 | 27.3 | 26.9 |
| 4100.00 | 20.9 | -28.0 | -9.5 | -13.2 | 1.3 | 0.8 | 19.3 | 22.1 | 2.2 | 28.2 | 28.0 | 27.5 | 27.2 | 26.9 | 26.8 | 26.6 |
| 4200.00 | 21.0 | -28.0 | -9.7 | -13.7 | 1.3 | 0.8 | 19.3 | 22.1 | 2.2 | 27.8 | 27.6 | 27.7 | 27.1 | 27.2 | 26.5 | 26.8 |
| 4300.00 | 21.1 | -28.2 | -10.0 | -14.1 | 1.3 | 0.8 | 19.1 | 22.1 | 2.2 | 27.4 | 27.6 | 27.5 | 27.4 | 26.9 | 26.8 | 27.0 |
| 4400.00 | 21.1 | -28.1 | -10.5 | -14.7 | 1.3 | 0.8 | 19.1 | 22.0 | 2.2 | 27.6 | 27.8 | 27.3 | 27.2 | 26.7 | 26.1 | 26.6 |
| 4500.00 | 21.2 | -28.1 | -10.9 | -15.3 | 1.3 | 0.8 | 18.9 | 22.0 | 2.2 | 28.4 | 27.9 | 27.1 | 27.0 | 26.8 | 26.3 | 26.7 |
| 4600.00 | 21.3 | -28.3 | -11.4 | -15.9 | 1.3 | 0.8 | 18.5 | 21.8 | 2.2 | 28.0 | 27.8 | 27.1 | 26.9 | 26.7 | 26.0 | 26.4 |
| 4700.00 | 21.3 | -28.2 | -11.9 | -16.6 | 1.3 | 0.8 | 18.6 | 21.8 | 2.2 | 27.1 | 27.4 | 26.9 | 26.5 | 26.4 | 25.7 | 25.7 |
| 4800.00 | 21.4 | -28.3 | -12.2 | -17.0 | 1.3 | 0.8 | 18.9 | 21.7 | 2.2 | 28.1 | 27.9 | 27.4 | 27.1 | 26.9 | 26.2 | 26.2 |
| 4900.00 | 21.4 | -28.4 | -12.9 | -17.5 | 1.3 | 0.8 | 18.7 | 21.7 | 2.3 | 27.5 | 27.4 | 26.8 | 26.5 | 26.4 | 25.3 | 25.3 |
| 5000.00 | 21.5 | -28.4 | -13.2 | -18.2 | 1.3 | 0.8 | 18.7 | 21.6 | 2.3 | 26.9 | 27.1 | 26.4 | 26.2 | 26.0 | 25.0 | 25.0 |
| 5100.00 | 21.5 | -28.5 | -13.4 | -18.4 | 1.3 | 0.8 | 19.2 | 21.6 | 2.3 | 26.5 | 27.8 | 26.3 | 26.2 | 26.9 | 25.0 | 25.2 |
| 5200.00 | 21.5 | -28.6 | -13.9 | -18.8 | 1.4 | 0.8 | 19.1 | 21.6 | 2.3 | 27.8 | 27.3 | 26.4 | 26.5 | 26.6 | 25.4 | 25.9 |
| 5300.00 | 21.6 | -28.7 | -13.6 | -18.7 | 1.4 | 0.8 | 18.7 | 21.5 | 2.3 | 27.6 | 27.5 | 26.3 | 26.3 | 26.8 | 25.1 | 25.7 |
| 5400.00 | 21.5 | -29.0 | -13.5 | -18.3 | 1.4 | 0.9 | 18.1 | 21.3 | 2.3 | 26.4 | 26.9 | 26.4 | 26.2 | 26.3 | 25.0 | 25.5 |
| 5500.00 | 21.5 | -28.9 | -13.5 | -18.8 | 1.4 | 0.9 | 17.6 | 20.9 | 2.3 | 25.6 | 27.1 | 25.5 | 25.4 | 26.0 | 23.8 | 24.5 |
| 5600.00 | 21.6 | -29.1 | -12.4 | -17.9 | 1.4 | 0.9 | 17.1 | 20.5 | 2.3 | 25.8 | 26.6 | 25.7 | 25.6 | 25.4 | 24.1 | 24.5 |
| 5700.00 | 21.4 | -29.4 | -12.0 | -17.2 | 1.4 | 0.9 | 17.0 | 20.1 | 2.3 | 25.3 | 26.8 | 24.9 | 24.5 | 25.4 | 22.4 | 23.5 |
| 5800.00 | 21.5 | -29.3 | -11.4 | -17.1 | 1.4 | 0.9 | 17.2 | 19.8 | 2.3 | 25.3 | 26.0 | 25.0 | 24.5 | 24.6 | 22.3 | 23.4 |
| 5900.00 | 21.4 | -29.8 | -10.2 | -15.7 | 1.5 | 0.9 | 17.3 | 19.5 | 2.4 | 25.3 | 25.5 | 25.0 | 24.8 | 24.3 | 22.7 | 23.6 |
| 6000.00 | 21.2 | -29.9 | -10.0 | -15.5 | 1.5 | 0.9 | 17.3 | 19.1 | 2.4 | 26.2 | 25.8 | 24.8 | 24.5 | 24.4 | 22.5 | 23.3 |
| 6100.00 | 21.2 | -30.0 | -9.0 | -14.6 | 1.5 | 0.9 | 17.4 | 19.1 | 2.5 | 26.0 | 25.7 | 25.2 | 24.9 | 24.5 | 23.0 | 23.9 |
| 6200.00 | 21.0 | -30.6 | -8.2 | -13.4 | 1.5 | 1.0 | 17.5 | 18.9 | 2.5 | 25.7 | 25.0 | 24.8 | 24.6 | 23.5 | 22.7 | 23.7 |
| 6300.00 | 20.9 | -30.5 | -7.8 | -13.0 | 1.5 | 1.0 | 17.4 | 18.7 | 2.6 | 25.6 | 25.5 | 24.3 | 24.0 | 24.0 | 21.9 | 23.4 |
| 6400.00 | 20.8 | -31.0 | -6.9 | -12.0 | 1.5 | 1.0 | 17.4 | 18.7 | 2.6 | 25.7 | 25.4 | 24.9 | 24.6 | 24.0 | 22.3 | 24.4 |
| 6500.00 | 20.4 | -31.7 | -6.4 | -11.2 | 1.6 | 1.0 | 17.5 | 18.7 | 2.7 | 25.0 | 24.5 | 24.4 | 24.2 | 23.1 | 21.9 | 23.6 |
| 6600.00 | 20.3 | -31.8 | -6.0 | -10.8 | 1.6 | 1.0 | 17.6 | 18.8 | 2.7 | 25.8 | 24.6 | 24.1 | 23.8 | 23.2 | 21.5 | 23.0 |
| 6700.00 | 20.0 | -32.4 | -5.3 | -9.8 | 1.7 | 1.1 | 17.4 | 18.5 | 2.7 | 25.0 | 24.3 | 24.1 | 23.9 | 22.9 | 21.6 | 23.1 |
| 6800.00 | 19.6 | -33.1 | -5.0 | -9.3 | 1.8 | 1.1 | 17.3 | 18.4 | 2.7 | 25.3 | 25.4 | 23.6 | 23.3 | 23.7 | 21.0 | 22.9 |
| 6900.00 | 19.3 | -33.7 | -4.5 | -8.8 | 1.9 | 1.1 | 17.1 | 18.2 | 2.8 | 23.5 | 23.5 | 23.1 | 23.1 | 22.1 | 20.7 | 23.2 |
| 7000.00 | 18.9 | -34.7 | -4.1 | -8.2 | 2.0 | 1.1 | 16.9 | 17.9 | 2.8 | 24.1 | 24.3 | 22.9 | 22.9 | 22.5 | 20.5 | 23.3 |
| 7100.00 | 18.3 | -35.4 | -4.0 | -7.8 | 2.2 | 1.1 | 16.6 | 17.6 | 2.8 | 23.4 | 24.0 | 23.3 | 22.9 | 22.2 | 20.6 | 23.4 |
| 7200.00 | 17.9 | -36.3 | -3.7 | -7.4 | 2.4 | 1.1 | 16.3 | 17.1 | 2.9 | 24.6 | 23.6 | 23.0 | 22.5 | 21.8 | 20.2 | 23.3 |
| 7300.00 | 17.3 | -37.7 | -3.5 | -7.0 | 2.8 | 1.1 | 15.9 | 16.7 | 2.9 | 23.5 | 23.8 | 22.3 | 21.7 | 22.2 | 19.9 | 22.7 |
| 7400.00 | 16.6 | -38.7 | -3.5 | -6.8 | 3.2 | 1.1 | 15.5 | 16.3 | 2.9 | 23.9 | 23.8 | 22.7 | 22.3 | 21.9 | 20.1 | 23.3 |
| 7500.00 | 16.0 | -40.1 | -3.3 | -6.5 | 3.9 | 1.1 | 15.0 | 15.8 | 3.0 | 22.3 | 23.0 | 21.6 | 21.0 | 21.0 | 19.4 | 20.8 |
| 7600.00 | 15.2 | -41.8 | -3.4 | -6.3 | 5.0 | 1.1 | 14.5 | 15.2 | 3.0 | 22.7 | 22.5 | 21.3 | 20.5 | 20.5 | 19.2 | 19.5 |
| 7700.00 | 14.5 | -42.7 | -3.5 | -6.2 | 5.9 | 1.1 | 13.9 | 14.6 | 3.1 | 22.0 | 21.9 | 20.3 | 19.7 | 20.0 | 18.3 | 17.1 |
| 7800.00 | 13.5 | -45.5 | -3.3 | -5.9 | 8.6 | 1.1 | 13.1 | 13.8 | 3.1 | 22.8 | 21.4 | 20.9 | 20.1 | 19.9 | 18.5 | 18.1 |
| 7900.00 | 12.2 | -45.5 | -3.6 | -5.7 | 10.3 | 1.1 | 12.0 | 12.7 | 3.3 | 20.1 | 19.7 | 18.5 | 18.2 | 18.8 | 13.9 | 8.6 |
| 8000.00 | 11.0 | -47.0 | -3.6 | -5.6 | 13.7 | 1.0 | 10.9 | 11.6 | 3.4 | 19.2 | 18.4 | 18.1 | 17.8 | 17.5 | 13.2 | 7.6 |

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 73 mA, $I_{EN}$ = 2.15 mA @ Temperature = + 105°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 40.0 | 40.0 | 39.9 | 39.9 | 39.7 | 39.4 | 39.1 |
| 1000.0 | 39.2 | 39.2 | 39.1 | 39.0 | 38.8 | 38.5 | 38.1 |
| 2000.0 | 38.5 | 38.2 | 38.1 | 37.9 | 37.6 | 37.3 | 37.0 |
| 4000.0 | 43.7 | 43.6 | 43.4 | 43.3 | 42.9 | 42.6 | 42.5 |
| 6000.0 | 33.4 | 33.2 | 33.0 | 32.6 | 32.2 | 31.8 | 31.6 |
| 8000.0 | 37.5 | 37.0 | 36.7 | 36.7 | 37.6 | 39.5 | 42.0 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = +5.0 V, $I_{DD}$ = 80 mA, $I_{EN}$ = 2.13 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 20.7 | -29.7 | -8.7 | -8.2 | 1.4 | 0.8 | 17.3 | 20.8 | 2.2 | 27.0 | 26.7 | 26.8 | 26.6 | 26.4 | 26.2 | 25.8 |
| 5600.00 | 20.9 | -29.8 | -8.5 | -8.3 | 1.4 | 0.8 | 16.9 | 20.5 | 2.1 | 25.8 | 25.6 | 25.5 | 25.4 | 25.1 | 24.7 | 24.2 |
| 5700.00 | 20.8 | -29.8 | -8.7 | -8.4 | 1.4 | 0.8 | 16.8 | 20.2 | 2.1 | 26.3 | 25.9 | 25.7 | 25.6 | 25.3 | 24.9 | 24.4 |
| 5800.00 | 21.0 | -29.9 | -8.5 | -8.5 | 1.4 | 0.8 | 16.8 | 20.0 | 2.1 | 25.9 | 25.8 | 25.8 | 25.5 | 25.3 | 25.0 | 24.5 |
| 5900.00 | 21.0 | -29.9 | -8.7 | -8.7 | 1.4 | 0.8 | 16.8 | 19.5 | 2.1 | 26.2 | 25.4 | 25.4 | 25.3 | 25.1 | 24.7 | 24.1 |
| 6000.00 | 21.1 | -30.0 | -8.4 | -8.7 | 1.4 | 0.8 | 16.9 | 19.2 | 2.1 | 24.6 | 24.3 | 24.3 | 24.1 | 23.8 | 23.3 | 22.9 |
| 6100.00 | 21.1 | -29.9 | -8.6 | -9.0 | 1.4 | 0.8 | 17.5 | 19.4 | 2.1 | 25.4 | 25.7 | 25.3 | 25.1 | 24.9 | 24.6 | 24.2 |
| 6200.00 | 21.2 | -30.1 | -8.3 | -9.0 | 1.4 | 0.8 | 17.7 | 19.4 | 2.1 | 25.4 | 25.2 | 24.8 | 24.7 | 24.5 | 24.2 | 23.9 |
| 6300.00 | 21.2 | -30.1 | -8.6 | -9.3 | 1.5 | 0.8 | 18.0 | 19.5 | 2.1 | 26.0 | 26.4 | 25.9 | 25.7 | 25.6 | 25.5 | 25.3 |
| 6400.00 | 21.3 | -30.4 | -8.3 | -9.3 | 1.5 | 0.8 | 18.2 | 19.6 | 2.1 | 25.9 | 26.0 | 25.6 | 25.6 | 25.5 | 25.4 | 25.3 |
| 6500.00 | 21.2 | -30.5 | -8.5 | -9.7 | 1.5 | 0.8 | 18.2 | 19.5 | 2.2 | 25.7 | 26.1 | 25.9 | 25.8 | 25.7 | 25.6 | 25.5 |
| 6600.00 | 21.3 | -30.7 | -8.2 | -9.7 | 1.5 | 0.9 | 18.5 | 19.7 | 2.2 | 26.0 | 26.0 | 26.0 | 25.8 | 25.8 | 25.7 | 25.6 |
| 6700.00 | 21.3 | -30.7 | -8.5 | -10.2 | 1.5 | 0.9 | 18.4 | 19.7 | 2.2 | 25.9 | 25.9 | 25.8 | 25.8 | 25.7 | 25.6 | 25.6 |
| 6800.00 | 21.3 | -31.0 | -8.3 | -10.2 | 1.6 | 0.9 | 18.5 | 19.7 | 2.2 | 26.5 | 26.5 | 26.0 | 26.1 | 26.1 | 26.1 | 26.0 |
| 6900.00 | 21.3 | -31.1 | -8.5 | -10.7 | 1.6 | 0.9 | 18.6 | 19.7 | 2.2 | 26.5 | 27.0 | 26.2 | 26.2 | 26.3 | 26.3 | 26.4 |
| 7000.00 | 21.3 | -31.6 | -8.3 | -10.8 | 1.7 | 0.9 | 18.7 | 19.8 | 2.3 | 26.4 | 26.1 | 26.0 | 25.9 | 25.9 | 26.0 | 26.0 |
| 7100.00 | 21.2 | -31.6 | -8.6 | -11.4 | 1.7 | 0.9 | 18.6 | 19.7 | 2.3 | 26.2 | 26.9 | 26.3 | 26.2 | 26.3 | 26.3 | 26.4 |
| 7200.00 | 21.1 | -32.1 | -8.3 | -11.6 | 1.8 | 1.0 | 18.7 | 19.7 | 2.4 | 26.3 | 26.5 | 26.3 | 26.3 | 26.3 | 26.4 | 26.5 |
| 7300.00 | 21.0 | -32.3 | -8.6 | -12.3 | 1.9 | 1.0 | 18.6 | 19.6 | 2.4 | 25.6 | 25.6 | 25.8 | 25.8 | 25.8 | 26.0 | 26.1 |
| 7400.00 | 20.9 | -32.9 | -8.3 | -12.6 | 2.0 | 1.0 | 18.6 | 19.6 | 2.5 | 25.9 | 26.5 | 26.0 | 25.9 | 26.0 | 26.1 | 26.2 |
| 7500.00 | 20.7 | -33.1 | -8.5 | -13.5 | 2.1 | 1.0 | 18.3 | 19.3 | 2.6 | 26.2 | 26.2 | 26.0 | 26.0 | 26.1 | 26.3 | 26.5 |
| 7600.00 | 20.5 | -33.8 | -8.1 | -13.7 | 2.3 | 1.0 | 18.3 | 19.2 | 2.6 | 26.5 | 26.1 | 26.1 | 26.1 | 26.1 | 26.2 | 26.3 |
| 7700.00 | 20.1 | -34.2 | -8.2 | -14.8 | 2.4 | 1.1 | 18.2 | 19.1 | 2.7 | 25.5 | 24.9 | 24.9 | 24.9 | 25.0 | 25.1 | 25.1 |
| 7800.00 | 19.8 | -35.2 | -7.5 | -14.8 | 2.7 | 1.1 | 18.0 | 18.8 | 2.8 | 25.9 | 26.5 | 26.0 | 25.9 | 25.9 | 26.1 | 26.3 |
| 7900.00 | 19.3 | -35.5 | -7.5 | -15.7 | 2.9 | 1.1 | 17.8 | 18.6 | 2.9 | 25.6 | 26.1 | 25.9 | 26.0 | 26.0 | 26.2 | 26.4 |
| 8000.00 | 18.7 | -36.8 | -6.6 | -14.9 | 3.4 | 1.2 | 17.5 | 18.3 | 3.1 | 25.4 | 25.2 | 25.3 | 25.3 | 25.5 | 25.7 | 25.7 |
| 8100.00 | 18.1 | -37.0 | -6.4 | -14.9 | 3.6 | 1.2 | 17.3 | 18.1 | 3.2 | 25.6 | 26.1 | 25.5 | 25.4 | 25.5 | 25.7 | 25.6 |
| 8200.00 | 17.2 | -38.8 | -5.5 | -13.2 | 4.5 | 1.2 | 16.9 | 17.7 | 3.4 | 25.2 | | 24.9 | 24.9 | 25.0 | 25.0 | 24.2 |
| 8300.00 | 16.5 | -38.8 | -5.2 | -12.5 | 4.6 | 1.2 | 16.6 | 17.4 | 3.5 | 25.7 | 25.0 | 25.3 | 25.2 | 25.3 | 25.4 | 24.7 |
| 8400.00 | 15.3 | -40.7 | -4.4 | -10.7 | 5.9 | 1.3 | 16.1 | 16.9 | 3.7 | 25.3 | 26.1 | 25.9 | 25.7 | 25.7 | 25.6 | 24.8 |
| 8500.00 | 14.4 | -41.2 | -4.1 | -9.8 | 6.4 | 1.3 | 15.5 | 16.3 | 4.0 | 24.9 | 24.6 | 24.7 | 24.5 | 24.5 | 23.7 | 21.7 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 36.2 | 36.2 | 36.0 | 35.8 | 35.3 | 35.0 | 34.7 |
| 6000.0 | 34.5 | 34.4 | 34.1 | 33.7 | 33.4 | 33.0 | 32.7 |
| 7000.0 | 44.5 | 44.3 | 44.1 | 43.7 | 43.5 | 43.2 | 43.1 |
| 8000.0 | 52.4 | 52.2 | 51.9 | 51.6 | 51.3 | 51.0 | 51.0 |
| 8500.0 | 60.2 | 59.9 | 59.6 | 59.2 | 58.9 | 58.9 | 59.4 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.1 | 1.1 | 0.9 | 4.0 |
| 300.00 | -2.4 | -2.5 | -6.7 | -12.0 | 1.0 | 0.7 | 2.6 |
| 400.00 | -1.8 | -1.8 | -9.3 | -14.1 | 1.0 | 0.6 | 2.3 |
| 500.00 | -1.5 | -1.5 | -12.1 | -15.8 | 1.0 | 0.5 | 1.7 |
| 600.00 | -1.3 | -1.4 | -15.0 | -16.9 | 1.0 | 0.5 | 1.6 |
| 700.00 | -1.2 | -1.3 | -18.2 | -17.8 | 1.0 | 0.5 | 1.6 |
| 800.00 | -1.2 | -1.3 | -22.2 | -17.9 | 1.0 | 0.4 | 1.6 |
| 900.00 | -1.2 | -1.3 | -27.2 | -17.7 | 1.0 | 0.4 | 1.5 |
| 1000.00 | -1.2 | -1.3 | -30.6 | -17.3 | 1.0 | 0.4 | 1.4 |
| 1100.00 | -1.2 | -1.3 | -26.5 | -17.0 | 1.0 | 0.4 | 1.5 |
| 1200.00 | -1.2 | -1.3 | -23.0 | -16.7 | 1.0 | 0.4 | 1.5 |
| 1300.00 | -1.2 | -1.3 | -20.5 | -16.3 | 1.0 | 0.4 | 1.6 |
| 1400.00 | -1.2 | -1.3 | -18.7 | -15.9 | 1.0 | 0.4 | 1.6 |
| 1500.00 | -1.3 | -1.4 | -17.4 | -15.5 | 1.0 | 0.5 | 1.7 |
| 1600.00 | -1.3 | -1.4 | -16.2 | -15.4 | 1.0 | 0.5 | 1.5 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.4 | 1.0 | 0.5 | 1.4 |
| 1800.00 | -1.4 | -1.5 | -14.7 | -15.3 | 1.0 | 0.5 | 1.7 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 1.7 |
| 2000.00 | -1.4 | -1.6 | -13.7 | -15.0 | 1.0 | 0.5 | 1.9 |
| 2100.00 | -1.5 | -1.7 | -13.5 | -15.1 | 1.0 | 0.5 | 1.7 |
| 2200.00 | -1.5 | -1.7 | -13.2 | -15.4 | 1.0 | 0.5 | 1.8 |
| 2300.00 | -1.5 | -1.8 | -13.1 | -15.6 | 1.0 | 0.6 | 1.9 |
| 2400.00 | -1.5 | -1.8 | -13.0 | -15.8 | 1.0 | 0.6 | 2.0 |
| 2500.00 | -1.6 | -1.9 | -13.0 | -16.2 | 1.1 | 0.6 | 2.1 |
| 2600.00 | -1.6 | -1.9 | -13.0 | -16.8 | 1.1 | 0.6 | 2.1 |
| 2700.00 | -1.6 | -2.0 | -13.1 | -17.5 | 1.1 | 0.6 | 2.2 |
| 2800.00 | -1.6 | -2.0 | -13.3 | -18.2 | 1.1 | 0.6 | 2.5 |
| 2900.00 | -1.7 | -2.1 | -13.4 | -18.9 | 1.1 | 0.6 | 2.2 |
| 3000.00 | -1.7 | -2.1 | -13.5 | -20.1 | 1.1 | 0.6 | 2.0 |
| 3100.00 | -1.7 | -2.1 | -13.7 | -21.5 | 1.1 | 0.7 | 2.8 |
| 3200.00 | -1.7 | -2.1 | -13.8 | -23.2 | 1.1 | 0.7 | 2.4 |
| 3300.00 | -1.7 | -2.1 | -13.9 | -24.8 | 1.1 | 0.7 | 2.1 |
| 3400.00 | -1.7 | -2.1 | -13.9 | -26.4 | 1.1 | 0.7 | 2.7 |
| 3500.00 | -1.7 | -2.1 | -13.9 | -27.4 | 1.1 | 0.7 | 2.3 |
| 3600.00 | -1.7 | -2.1 | -13.8 | -25.9 | 1.1 | 0.7 | 2.3 |
| 3700.00 | -1.7 | -2.1 | -13.7 | -23.7 | 1.1 | 0.7 | 2.8 |
| 3800.00 | -1.8 | -2.1 | -13.5 | -21.8 | 1.1 | 0.7 | 2.6 |
| 3900.00 | -1.8 | -2.1 | -13.3 | -20.1 | 1.1 | 0.7 | 2.2 |
| 4000.00 | -1.8 | -2.1 | -13.1 | -18.6 | 1.1 | 0.7 | 2.3 |
| 4100.00 | -1.8 | -2.2 | -12.8 | -17.2 | 1.1 | 0.7 | 2.4 |
| 4200.00 | -1.8 | -2.2 | -12.5 | -16.2 | 1.1 | 0.6 | 2.1 |
| 4300.00 | -1.9 | -2.2 | -12.3 | -15.4 | 1.1 | 0.6 | 2.0 |
| 4400.00 | -1.9 | -2.3 | -12.0 | -14.7 | 1.1 | 0.6 | 1.9 |
| 4500.00 | -1.9 | -2.3 | -11.8 | -14.0 | 1.1 | 0.6 | 2.2 |
| 4600.00 | -1.9 | -2.3 | -11.6 | -13.4 | 1.1 | 0.6 | 2.6 |
| 4700.00 | -1.9 | -2.3 | -11.4 | -13.0 | 1.1 | 0.6 | 2.4 |
| 4800.00 | -1.9 | -2.4 | -11.3 | -12.7 | 1.1 | 0.6 | 2.4 |
| 4900.00 | -2.0 | -2.4 | -11.2 | -12.5 | 1.1 | 0.6 | 2.3 |
| 5000.00 | -2.0 | -2.4 | -11.1 | -12.1 | 1.1 | 0.6 | 2.6 |
| 5100.00 | -2.0 | -2.4 | -11.0 | -12.0 | 1.1 | 0.6 | 2.1 |
| 5200.00 | -2.0 | -2.5 | -11.0 | -11.8 | 1.1 | 0.6 | 2.5 |
| 5300.00 | -1.9 | -2.5 | -11.0 | -11.7 | 1.1 | 0.6 | 2.1 |
| 5400.00 | -1.9 | -2.5 | -11.1 | -11.7 | 1.1 | 0.6 | 2.1 |
| 5500.00 | -1.9 | -2.5 | -11.1 | -11.5 | 1.1 | 0.6 | 2.2 |
| 5600.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 2.3 |
| 5700.00 | -1.9 | -2.5 | -11.4 | -11.7 | 1.1 | 0.6 | 2.2 |
| 5800.00 | -1.8 | -2.4 | -11.6 | -11.7 | 1.1 | 0.6 | 1.9 |
| 5900.00 | -1.8 | -2.5 | -11.9 | -11.9 | 1.1 | 0.6 | 1.5 |
| 6000.00 | -1.8 | -2.5 | -12.0 | -11.9 | 1.1 | 0.6 | 2.1 |
| 6100.00 | -1.8 | -2.4 | -12.4 | -12.0 | 1.1 | 0.6 | 2.1 |
| 6200.00 | -1.8 | -2.4 | -12.8 | -12.3 | 1.1 | 0.6 | 2.3 |
| 6300.00 | -1.7 | -2.4 | -13.0 | -12.4 | 1.1 | 0.6 | 2.4 |
| 6400.00 | -1.7 | -2.4 | -13.4 | -12.7 | 1.1 | 0.6 | 2.7 |
| 6500.00 | -1.7 | -2.4 | -13.8 | -12.8 | 1.1 | 0.6 | 1.9 |
| 6600.00 | -1.7 | -2.4 | -14.0 | -12.9 | 1.1 | 0.6 | 2.4 |
| 6700.00 | -1.6 | -2.4 | -14.5 | -13.2 | 1.1 | 0.6 | 2.8 |
| 6800.00 | -1.7 | -2.4 | -14.8 | -13.4 | 1.1 | 0.6 | 2.2 |
| 6900.00 | -1.6 | -2.4 | -14.9 | -13.4 | 1.1 | 0.6 | 2.8 |
| 7000.00 | -1.7 | -2.4 | -15.2 | -13.6 | 1.1 | 0.6 | 2.8 |
| 7100.00 | -1.7 | -2.5 | -15.1 | -13.6 | 1.1 | 0.6 | 2.2 |
| 7200.00 | -1.7 | -2.5 | -14.9 | -13.6 | 1.1 | 0.6 | 2.9 |
| 7300.00 | -1.8 | -2.5 | -14.7 | -13.4 | 1.1 | 0.6 | 2.7 |
| 7400.00 | -1.9 | -2.6 | -14.2 | -13.0 | 1.1 | 0.6 | 3.2 |
| 7500.00 | -1.9 | -2.6 | -13.7 | -12.8 | 1.1 | 0.6 | 3.4 |
| 7600.00 | -2.0 | -2.7 | -13.2 | -12.5 | 1.2 | 0.7 | 3.1 |
| 7700.00 | -2.1 | -2.8 | -12.4 | -11.8 | 1.2 | 0.7 | 3.3 |
| 7800.00 | -2.2 | -2.9 | -11.8 | -11.4 | 1.2 | 0.7 | 3.1 |
| 7900.00 | -2.4 | -3.1 | -11.2 | -10.7 | 1.2 | 0.7 | 3.3 |
| 8000.00 | -2.5 | -3.2 | -10.2 | -10.0 | 1.2 | 0.7 | 3.6 |

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 29.1 | 27.9 | 25.8 | 22.7 | 17.7 | 14.7 | 13.8 |
| 1000.0 | 31.3 | 30.1 | 28.1 | 24.8 | 18.8 | 14.2 | 15.3 |
| 2000.0 | 33.0 | 32.3 | 31.0 | 28.7 | 24.7 | 18.1 | 16.2 |
| 4000.0 | 34.1 | 33.5 | 32.6 | 31.2 | 28.8 | 24.6 | 19.2 |
| 6000.0 | 34.5 | 34.2 | 33.4 | 31.6 | 28.6 | 22.9 | 17.0 |
| 8000.0 | 35.4 | 34.9 | 33.8 | 32.1 | 29.2 | 23.1 | 16.8 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 71.1 | 70.2 | 68.4 | 64.7 | 55.1 | 45.9 | 45.5 |
| 1000.0 | 71.6 | 71.5 | 71.1 | 68.6 | 58.6 | 53.7 | 51.3 |
| 2000.0 | 71.5 | 71.2 | 70.7 | 69.7 | 66.8 | 57.7 | 50.5 |
| 4000.0 | 73.4 | 73.5 | 73.6 | 74.1 | 74.8 | 73.4 | 54.8 |
| 6000.0 | 72.4 | 72.2 | 71.9 | 71.3 | 70.0 | 64.6 | 56.1 |
| 8000.0 | 83.4 | 83.2 | 83.0 | 82.6 | 81.4 | 77.7 | 66.8 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 11.4 | 8.6 |
| 1000.0 | 11.2 | 9.1 |
| 2000.0 | 12.9 | 10.6 |
| 4000.0 | 15.1 | 12.4 |
| 6000.0 | 15.5 | 12.5 |
| 8000.0 | 15.4 | 12.0 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.8 | -2.4 | -20.1 | -17.3 | 1.1 | 0.7 | 3.0 |
| 5600.00 | -1.7 | -2.4 | -20.6 | -17.1 | 1.1 | 0.7 | 3.0 |
| 5700.00 | -1.7 | -2.5 | -20.5 | -16.9 | 1.1 | 0.7 | 3.1 |
| 5800.00 | -1.7 | -2.5 | -19.9 | -16.3 | 1.1 | 0.7 | 3.1 |
| 5900.00 | -1.7 | -2.5 | -19.0 | -15.8 | 1.1 | 0.7 | 3.0 |
| 6000.00 | -1.7 | -2.5 | -18.3 | -15.2 | 1.1 | 0.7 | 2.8 |
| 6100.00 | -1.7 | -2.5 | -17.1 | -14.5 | 1.1 | 0.7 | 3.0 |
| 6200.00 | -1.7 | -2.6 | -16.3 | -13.9 | 1.1 | 0.7 | 3.1 |
| 6300.00 | -1.8 | -2.6 | -15.3 | -13.2 | 1.1 | 0.7 | 3.2 |
| 6400.00 | -1.8 | -2.7 | -14.6 | -12.7 | 1.1 | 0.7 | 2.7 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.1 | 1.1 | 0.7 | 2.9 |
| 6600.00 | -1.9 | -2.8 | -13.1 | -11.6 | 1.1 | 0.7 | 2.8 |
| 6700.00 | -1.9 | -2.8 | -12.3 | -11.1 | 1.1 | 0.7 | 3.3 |
| 6800.00 | -2.0 | -2.9 | -11.7 | -10.7 | 1.1 | 0.7 | 3.3 |
| 6900.00 | -2.0 | -3.0 | -11.0 | -10.2 | 1.1 | 0.7 | 3.1 |
| 7000.00 | -2.1 | -3.1 | -10.5 | -9.8 | 1.1 | 0.7 | 3.1 |
| 7100.00 | -2.2 | -3.1 | -9.9 | -9.3 | 1.1 | 0.7 | 3.2 |
| 7200.00 | -2.3 | -3.2 | -9.4 | -8.9 | 1.1 | 0.7 | 3.5 |
| 7300.00 | -2.4 | -3.4 | -8.9 | -8.4 | 1.1 | 0.7 | 3.3 |
| 7400.00 | -2.6 | -3.5 | -8.4 | -8.1 | 1.2 | 0.7 | 3.4 |
| 7500.00 | -2.7 | -3.6 | -7.9 | -7.7 | 1.2 | 0.6 | 3.4 |
| 7600.00 | -2.9 | -3.7 | -7.5 | -7.3 | 1.2 | 0.6 | 3.3 |
| 7700.00 | -3.0 | -3.9 | -7.0 | -6.9 | 1.2 | 0.6 | 3.5 |
| 7800.00 | -3.2 | -4.1 | -6.6 | -6.6 | 1.2 | 0.6 | 3.3 |
| 7900.00 | -3.4 | -4.3 | -6.2 | -6.2 | 1.2 | 0.6 | 3.9 |
| 8000.00 | -3.6 | -4.5 | -5.9 | -5.9 | 1.2 | 0.6 | 4.1 |
| 8100.00 | -3.8 | -4.7 | -5.4 | -5.5 | 1.2 | 0.6 | 4.2 |
| 8200.00 | -4.1 | -4.9 | -5.2 | -5.3 | 1.2 | 0.6 | 4.1 |
| 8300.00 | -4.3 | -5.1 | -4.8 | -4.9 | 1.2 | 0.6 | 3.9 |
| 8400.00 | -4.5 | -5.3 | -4.6 | -4.8 | 1.2 | 0.6 | 4.3 |
| 8500.00 | -4.7 | -5.5 | -4.2 | -4.5 | 1.2 | 0.6 | 4.2 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 14.3 | 11.4 |
| 6000.0 | 14.8 | 12.0 |
| 7000.0 | 16.4 | 12.9 |
| 8000.0 | 17.2 | 11.9 |
| 8500.0 | 16.0 | 10.6 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.5 | 70.5 | 70.3 | 69.8 | 68.3 | 63.8 | 57.9 | 35.7 | 35.6 | 34.7 | 34.0 | 31.9 | 28.3 | 22.2 |
| 6000.0 | 75.7 | 75.5 | 75.3 | 75.0 | 74.5 | 72.6 | 66.5 | 36.7 | 36.3 | 35.5 | 33.7 | 30.8 | 25.8 | 17.6 |
| 7000.0 | 86.1 | 85.9 | 85.7 | 85.3 | 84.3 | 81.5 | 72.3 | 36.6 | 36.5 | 35.8 | 32.9 | 30.4 | 26.5 | 20.8 |
| 8000.0 | 83.6 | 83.7 | 83.5 | 83.2 | 82.6 | 80.6 | 73.5 | 36.3 | 35.9 | 35.2 | 34.9 | 32.9 | 29.5 | 23.0 |
| 8500.0 | 93.7 | 93.8 | 93.7 | 93.8 | 93.0 | 90.4 | 96.9 | 35.8 | 34.9 | 33.5 | 30.8 | 26.2 | 17.4 | 15.6 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 79 mA, $I_{EN}$ = 2.26 mA @ Temperature = + 105°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.5 | -32.7 | -1.9 | -4.8 | 1.5 | 1.0 | 19.6 | 21.1 | 5.7 | 30.7 | 30.6 | 31.3 | 31.6 | 30.7 | 29.7 | 30.4 |
| 300.00 | 19.2 | -28.0 | -5.7 | -9.0 | 1.2 | 0.8 | 19.9 | 21.3 | 3.2 | 31.5 | 32.2 | 31.5 | 32.3 | 31.8 | 31.0 | 31.4 |
| 400.00 | 20.7 | -26.4 | -11.6 | -15.2 | 1.2 | 0.7 | 20.4 | 21.6 | 2.4 | 31.6 | 33.2 | 33.4 | 34.0 | 33.0 | 31.6 | 32.7 |
| 500.00 | 21.1 | -26.1 | -17.6 | -20.2 | 1.2 | 0.7 | 20.8 | 21.7 | 2.1 | 30.8 | 32.1 | 32.5 | 32.8 | 32.7 | 32.4 | 32.7 |
| 600.00 | 21.2 | -25.9 | -19.7 | -20.0 | 1.1 | 0.7 | 21.0 | 21.8 | 1.9 | 31.9 | 32.9 | 34.3 | 34.1 | 33.7 | 33.1 | 33.7 |
| 700.00 | 21.2 | -25.9 | -18.6 | -18.8 | 1.1 | 0.7 | 21.2 | 22.0 | 1.8 | 31.6 | 32.9 | 33.5 | 33.8 | 33.3 | 32.7 | 33.2 |
| 800.00 | 21.2 | -26.0 | -17.5 | -18.3 | 1.1 | 0.7 | 21.2 | 22.0 | 1.8 | 31.8 | 33.2 | 33.9 | 33.3 | 32.9 | 33.1 | 32.7 |
| 900.00 | 21.2 | -26.0 | -16.8 | -18.2 | 1.1 | 0.7 | 21.3 | 22.1 | 1.8 | 31.5 | 33.1 | 33.8 | 33.5 | 33.3 | 32.3 | 33.0 |
| 1000.00 | 21.2 | -26.0 | -16.4 | -18.5 | 1.1 | 0.7 | 21.4 | 22.2 | 1.8 | 33.0 | 33.3 | 33.5 | 34.3 | 33.7 | 33.0 | 33.6 |
| 1100.00 | 21.2 | -26.1 | -16.3 | -19.0 | 1.1 | 0.7 | 21.3 | 22.1 | 1.8 | 33.7 | 33.1 | 33.8 | 33.8 | 33.4 | 31.9 | 33.1 |
| 1200.00 | 21.2 | -26.1 | -16.3 | -20.0 | 1.2 | 0.7 | 21.4 | 22.3 | 1.8 | 32.9 | 32.9 | 32.9 | 33.4 | 32.8 | 32.4 | 32.8 |
| 1300.00 | 21.3 | -26.1 | -16.2 | -21.1 | 1.2 | 0.7 | 21.4 | 22.3 | 1.8 | 32.2 | 32.4 | 32.7 | 32.9 | 32.6 | 31.9 | 32.4 |
| 1400.00 | 21.3 | -26.2 | -16.2 | -22.6 | 1.2 | 0.7 | 21.3 | 22.2 | 1.8 | 33.0 | 32.2 | 32.8 | 33.1 | 32.8 | 32.2 | 32.8 |
| 1500.00 | 21.3 | -26.3 | -16.1 | -24.6 | 1.2 | 0.7 | 21.2 | 22.3 | 1.8 | 31.7 | 31.7 | 31.7 | 31.9 | 31.5 | 30.9 | 31.5 |
| 1600.00 | 21.2 | -26.3 | -15.7 | -27.0 | 1.2 | 0.7 | 21.3 | 22.4 | 1.9 | 30.9 | 31.7 | 32.5 | 32.5 | 32.1 | 31.3 | 32.0 |
| 1700.00 | 21.2 | -26.4 | -15.4 | -28.1 | 1.2 | 0.7 | 21.3 | 22.5 | 1.9 | 31.3 | 31.0 | 32.0 | 31.9 | 31.5 | 30.8 | 31.5 |
| 1800.00 | 21.3 | -26.4 | -15.1 | -28.4 | 1.2 | 0.7 | 21.1 | 22.4 | 1.9 | 31.3 | 31.7 | 31.8 | 31.7 | 31.5 | 31.8 | 31.4 |
| 1900.00 | 21.3 | -26.5 | -14.6 | -26.2 | 1.2 | 0.7 | 21.1 | 22.4 | 2.0 | 29.8 | 32.5 | 30.7 | 31.0 | 30.5 | 30.9 | 30.2 |
| 2000.00 | 21.2 | -26.6 | -14.1 | -23.6 | 1.2 | 0.7 | 20.8 | 22.3 | 2.0 | 31.6 | 32.2 | 31.1 | 31.5 | 31.0 | 31.0 | 30.6 |
| 2100.00 | 21.2 | -26.7 | -13.5 | -21.6 | 1.2 | 0.7 | 21.0 | 22.5 | 2.1 | 30.9 | 30.3 | 31.2 | 30.9 | 30.8 | 31.5 | 30.3 |
| 2200.00 | 21.2 | -26.8 | -12.9 | -19.9 | 1.2 | 0.8 | 20.9 | 22.4 | 2.1 | 31.5 | 30.7 | 31.4 | 31.7 | 31.3 | 31.2 | 30.8 |
| 2300.00 | 21.2 | -26.9 | -12.4 | -18.4 | 1.2 | 0.8 | 20.8 | 22.5 | 2.1 | 30.2 | 31.4 | 30.8 | 31.2 | 30.7 | 31.0 | 30.4 |
| 2400.00 | 21.2 | -27.0 | -11.8 | -17.1 | 1.2 | 0.8 | 20.5 | 22.5 | 2.1 | 29.8 | 29.7 | 29.7 | 29.8 | 29.4 | 29.9 | 28.9 |
| 2500.00 | 21.1 | -27.1 | -11.4 | -16.2 | 1.2 | 0.8 | 20.4 | 22.5 | 2.1 | 30.6 | 29.7 | 29.6 | 29.8 | 29.3 | 29.3 | 28.9 |
| 2600.00 | 21.1 | -27.2 | -11.0 | -15.3 | 1.2 | 0.8 | 20.1 | 22.4 | 2.2 | 30.1 | 29.3 | 29.3 | 29.5 | 29.2 | 29.2 | 28.6 |
| 2700.00 | 21.0 | -27.4 | -10.6 | -14.6 | 1.2 | 0.8 | 19.9 | 22.2 | 2.2 | 29.9 | 28.9 | 29.7 | 30.0 | 29.5 | 29.0 | 29.1 |
| 2800.00 | 21.0 | -27.5 | -10.2 | -14.0 | 1.2 | 0.8 | 19.8 | 22.0 | 2.3 | 30.5 | 29.8 | 29.3 | 29.5 | 29.1 | 28.9 | 28.6 |
| 2900.00 | 21.0 | -27.6 | -9.9 | -13.4 | 1.3 | 0.8 | 19.6 | 21.9 | 2.3 | 29.0 | | 28.3 | 28.5 | 28.1 | 28.3 | 27.4 |
| 3000.00 | 20.9 | -27.6 | -9.6 | -12.9 | 1.3 | 0.8 | 19.7 | 22.1 | 2.2 | 28.3 | 28.1 | 28.4 | 28.5 | 28.0 | 27.7 | 27.6 |
| 3100.00 | 20.9 | -27.7 | -9.3 | -12.5 | 1.3 | 0.8 | 19.5 | 22.2 | 2.3 | 27.4 | 29.0 | 28.1 | 28.1 | 27.7 | 27.6 | 27.1 |
| 3200.00 | 20.9 | -27.8 | -9.1 | -12.3 | 1.3 | 0.8 | 19.6 | 22.2 | 2.3 | 28.4 | 28.9 | 28.4 | 28.4 | 28.1 | 28.5 | 27.5 |
| 3300.00 | 20.9 | -27.8 | -9.0 | -12.1 | 1.3 | 0.8 | 19.4 | 22.0 | 2.3 | 27.9 | 28.4 | 28.4 | 28.3 | 27.9 | 28.1 | 27.4 |
| 3400.00 | 20.9 | -27.9 | -8.9 | -12.0 | 1.3 | 0.8 | 19.2 | 21.8 | 2.3 | 30.1 | 27.8 | 28.4 | 28.9 | 28.3 | 28.1 | 27.9 |
| 3500.00 | 20.9 | -27.9 | -8.8 | -12.0 | 1.3 | 0.8 | 19.4 | 22.0 | 2.4 | 28.2 | 28.2 | 28.0 | 28.1 | 27.6 | 28.3 | 27.1 |
| 3600.00 | 20.9 | -27.9 | -8.9 | -12.1 | 1.3 | 0.8 | 19.4 | 22.0 | 2.3 | 28.0 | 28.0 | 27.7 | 28.0 | 27.5 | 27.7 | 27.0 |
| 3700.00 | 21.0 | -28.0 | -8.9 | -12.3 | 1.3 | 0.8 | 19.7 | 22.2 | 2.3 | 29.1 | 29.1 | 28.8 | 29.2 | 28.6 | 28.7 | 28.2 |
| 3800.00 | 21.0 | -28.0 | -9.0 | -12.5 | 1.3 | 0.8 | 19.7 | 22.2 | 2.2 | 27.9 | 28.5 | 28.0 | 27.9 | 27.5 | 28.7 | 27.1 |
| 3900.00 | 21.1 | -28.1 | -9.2 | -12.7 | 1.3 | 0.8 | 19.7 | 22.3 | 2.2 | 27.8 | 28.9 | 28.2 | 28.4 | 27.8 | 28.2 | 27.3 |
| 4000.00 | 21.1 | -28.1 | -9.3 | -13.1 | 1.3 | 0.8 | 19.6 | 22.3 | 2.2 | 28.0 | 28.4 | 28.5 | 28.7 | 28.2 | 28.5 | 27.8 |
| 4100.00 | 21.2 | -28.0 | -9.6 | -13.6 | 1.3 | 0.8 | 19.7 | 22.4 | 2.2 | 28.2 | 27.9 | 28.2 | 28.2 | 27.8 | 28.7 | 27.3 |
| 4200.00 | 21.2 | -28.1 | -9.9 | -14.1 | 1.3 | 0.8 | 19.8 | 22.4 | 2.2 | 28.3 | 27.6 | 28.3 | 28.2 | 27.7 | 27.7 | 27.3 |
| 4300.00 | 21.3 | -28.2 | -10.2 | -14.5 | 1.3 | 0.8 | 19.6 | 22.3 | 2.1 | 28.4 | 27.6 | 28.1 | 28.5 | 27.8 | 27.8 | 27.5 |
| 4400.00 | 21.3 | -28.3 | -10.7 | -15.2 | 1.3 | 0.8 | 19.5 | 22.3 | 2.2 | 28.2 | 27.8 | 27.9 | 28.0 | 27.6 | 27.7 | 27.0 |
| 4500.00 | 21.4 | -28.3 | -11.0 | -15.8 | 1.3 | 0.8 | 19.3 | 22.2 | 2.1 | 27.4 | 27.8 | 27.8 | 27.9 | 27.4 | 27.7 | 26.9 |
| 4600.00 | 21.5 | -28.3 | -11.5 | -16.4 | 1.3 | 0.8 | 19.0 | 22.0 | 2.2 | 28.0 | 27.8 | 27.7 | 28.0 | 27.1 | 26.9 | 26.6 |
| 4700.00 | 21.5 | -28.3 | -12.1 | -17.2 | 1.3 | 0.8 | 19.1 | 22.0 | 2.2 | 27.2 | 27.4 | 27.4 | 27.5 | 26.9 | 27.4 | 26.3 |
| 4800.00 | 21.6 | -28.4 | -12.4 | -17.6 | 1.3 | 0.8 | 19.3 | 22.1 | 2.2 | 28.3 | 27.9 | 27.6 | 28.1 | 27.4 | 27.2 | 26.9 |
| 4900.00 | 21.6 | -28.4 | -13.1 | -18.2 | 1.3 | 0.8 | 19.1 | 21.9 | 2.2 | 27.1 | 27.4 | 27.5 | 27.5 | 26.8 | 27.9 | 26.1 |
| 5000.00 | 21.7 | -28.5 | -13.4 | -19.0 | 1.3 | 0.8 | 19.1 | 21.8 | 2.2 | 27.3 | 27.1 | 26.9 | 27.3 | 26.5 | 27.6 | 25.9 |
| 5100.00 | 21.7 | -28.6 | -13.6 | -19.1 | 1.3 | 0.8 | 19.5 | 21.8 | 2.2 | 26.9 | 27.8 | 27.1 | 27.1 | 26.5 | 27.8 | 26.1 |
| 5200.00 | 21.7 | -28.7 | -14.2 | -19.6 | 1.4 | 0.8 | 19.5 | 21.8 | 2.2 | 26.7 | 27.3 | 27.1 | 27.3 | 26.7 | 28.0 | 26.5 |
| 5300.00 | 21.8 | -28.8 | -13.9 | -19.5 | 1.4 | 0.8 | 19.0 | 21.7 | 2.2 | 26.3 | 27.5 | 27.0 | 27.2 | 26.5 | 27.1 | 26.1 |
| 5400.00 | 21.8 | -29.0 | -13.7 | -19.1 | 1.4 | 0.8 | 18.5 | 21.4 | 2.2 | 27.3 | 26.9 | 26.9 | 27.1 | 26.3 | 26.5 | 25.9 |
| 5500.00 | 21.8 | -28.9 | -13.7 | -19.6 | 1.4 | 0.8 | 18.0 | 21.1 | 2.2 | 25.9 | 27.1 | 26.1 | 26.3 | 25.4 | 26.9 | 24.9 |
| 5600.00 | 21.8 | -29.1 | -12.6 | -18.6 | 1.4 | 0.9 | 17.5 | 20.6 | 2.2 | 26.1 | 26.6 | 26.3 | 26.5 | 25.5 | 25.3 | 24.7 |
| 5700.00 | 21.6 | -29.4 | -12.2 | -17.8 | 1.4 | 0.9 | 17.5 | 20.3 | 2.2 | 25.3 | 26.8 | 25.4 | 25.5 | 24.5 | 25.0 | 23.6 |
| 5800.00 | 21.7 | -29.3 | -11.6 | -17.7 | 1.4 | 0.9 | 17.6 | 20.0 | 2.3 | 25.0 | 26.0 | 25.2 | 25.4 | 24.3 | 25.5 | 23.3 |
| 5900.00 | 21.6 | -29.8 | -10.4 | -16.2 | 1.4 | 0.9 | 17.7 | 19.8 | 2.3 | 25.1 | 25.5 | 25.3 | 25.3 | 24.5 | 25.9 | 23.7 |
| 6000.00 | 21.4 | -29.8 | -10.2 | -16.0 | 1.5 | 0.9 | 17.7 | 19.4 | 2.3 | 24.9 | 25.8 | 25.1 | 25.3 | 24.1 | 25.4 | 23.3 |
| 6100.00 | 21.5 | -30.0 | -9.1 | -15.0 | 1.4 | 0.9 | 17.8 | 19.3 | 2.4 | 25.0 | 25.7 | 25.2 | 25.7 | 24.5 | 25.8 | 23.8 |
| 6200.00 | 21.2 | -30.5 | -8.2 | -13.6 | 1.5 | 1.0 | 17.8 | 19.2 | 2.4 | 24.7 | 25.0 | 25.3 | 25.5 | 24.3 | 25.2 | 23.6 |
| 6300.00 | 21.1 | -30.7 | -7.9 | -13.3 | 1.5 | 1.0 | 17.7 | 19.0 | 2.5 | 24.5 | 25.5 | 24.4 | 24.6 | 23.6 | 25.7 | 23.2 |
| 6400.00 | 21.0 | -31.1 | -7.0 | -12.2 | 1.5 | 1.0 | 17.8 | 19.0 | 2.5 | 24.9 | 25.4 | 25.2 | 25.2 | 24.2 | 25.1 | 23.7 |
| 6500.00 | 20.7 | -31.6 | -6.4 | -11.4 | 1.6 | 1.0 | 17.8 | 19.0 | 2.6 | 24.7 | 24.5 | 24.7 | 24.8 | 23.8 | 25.5 | 23.3 |
| 6600.00 | 20.5 | -31.8 | -6.0 | -10.9 | 1.6 | 1.0 | 17.8 | 19.0 | 2.5 | 24.2 | 24.6 | 24.3 | 24.3 | 23.4 | 24.8 | 23.0 |
| 6700.00 | 20.3 | -32.6 | -5.2 | -10.0 | 1.7 | 1.1 | 17.6 | 18.8 | 2.6 | 24.6 | 24.3 | 24.6 | 24.5 | 23.6 | 24.9 | 23.1 |
| 6800.00 | 19.8 | -33.3 | -4.9 | -9.4 | 1.8 | 1.1 | 17.5 | 18.6 | 2.6 | 23.9 | 25.3 | 24.0 | 24.0 | 23.0 | 24.7 | 22.8 |
| 6900.00 | 19.5 | -33.7 | -4.5 | -8.9 | 1.8 | 1.1 | 17.3 | 18.4 | 2.7 | 24.3 | 23.5 | 23.8 | 23.8 | 22.7 | 24.3 | 22.7 |
| 7000.00 | 19.1 | -34.8 | -4.1 | -8.2 | 2.0 | 1.1 | 17.1 | 18.1 | 2.7 | 24.0 | 24.3 | 23.7 | 23.7 | 22.6 | 24.5 | 22.6 |
| 7100.00 | 18.5 | -35.6 | -4.0 | -7.9 | 2.2 | 1.1 | 16.8 | 17.7 | 2.7 | 24.2 | 24.0 | 23.8 | 23.8 | 22.7 | 24.2 | 22.7 |
| 7200.00 | 18.1 | -36.5 | -3.7 | -7.5 | 2.4 | 1.1 | 16.4 | 17.3 | 2.8 | 23.7 | 23.5 | 23.4 | 23.7 | 22.3 | 24.3 | 22.4 |
| 7300.00 | 17.4 | -38.0 | -3.4 | -7.1 | 2.8 | 1.1 | 16.0 | 16.8 | 2.8 | 23.6 | 23.7 | 22.7 | 22.7 | 21.8 | 23.2 | 21.8 |
| 7400.00 | 16.8 | -38.7 | -3.5 | -6.9 | 3.2 | 1.1 | 15.6 | 16.4 | 2.8 | 24.2 | 23.8 | 23.4 | 23.7 | 22.3 | 23.7 | 22.3 |
| 7500.00 | 16.1 | -40.5 | -3.3 | -6.6 | 4.0 | 1.1 | 15.1 | 15.9 | 2.9 | 23.4 | 23.0 | 22.2 | 22.3 | 21.3 | 21.6 | 20.3 |
| 7600.00 | 15.3 | -42.3 | -3.4 | -6.4 | 5.2 | 1.1 | 14.6 | 15.3 | 3.0 | 23.3 | 22.5 | 21.8 | 21.9 | 21.0 | 21.3 | 19.3 |
| 7700.00 | 14.6 | -42.9 | -3.5 | -6.3 | 6.0 | 1.1 | 14.0 | 14.7 | 2.9 | 22.1 | 21.9 | 21.0 | 21.0 | 20.4 | 20.4 | 17.1 |
| 7800.00 | 13.6 | -46.1 | -3.3 | -6.0 | 9.2 | 1.1 | 13.1 | 13.8 | 3.0 | 23.4 | 21.4 | 21.6 | 21.7 | 20.9 | 19.0 | 17.7 |
| 7900.00 | 12.3 | -45.8 | -3.7 | -5.8 | 10.6 | 1.1 | 12.1 | 12.8 | 3.2 | 21.9 | 19.6 | 19.3 | 19.7 | 18.5 | 17.2 | 9.1 |
| 8000.00 | 11.1 | -47.3 | -3.6 | -5.6 | 14.1 | 1.0 | 10.9 | 11.6 | 3.3 | 21.7 | 18.3 | 19.0 | 19.3 | 17.6 | 14.3 | 7.9 |

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 79 mA, $I_{EN}$ = 2.26 mA @ Temperature = + 105°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 41.5 | 41.5 | 41.5 | 41.4 | 41.2 | 40.9 | 40.7 |
| 1000.0 | 40.7 | 40.7 | 40.6 | 40.4 | 40.2 | 40.0 | 39.6 |
| 2000.0 | 39.8 | 39.5 | 39.3 | 39.2 | 38.9 | 38.6 | 38.3 |
| 4000.0 | 44.4 | 43.9 | 43.7 | 43.5 | 43.2 | 42.9 | 42.8 |
| 6000.0 | 33.8 | 33.6 | 33.3 | 33.1 | 32.7 | 32.3 | 32.1 |
| 8000.0 | 38.0 | 37.6 | 37.2 | 37.2 | 37.9 | 39.7 | 42.1 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = +5.25 V, $I_{DD}$ = 86 mA, $I_{EN}$ = 2.24 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 20.9 | -29.7 | -8.7 | -8.3 | 1.4 | 0.8 | 17.8 | 20.9 | 2.2 | 27.0 | 27.3 | 27.4 | 27.1 | 27.1 | 26.9 | 26.5 |
| 5600.00 | 21.1 | -29.8 | -8.5 | -8.4 | 1.4 | 0.8 | 17.4 | 20.7 | 2.1 | 25.9 | 26.1 | 26.0 | 25.8 | 25.7 | 25.4 | 24.9 |
| 5700.00 | 21.0 | -29.9 | -8.7 | -8.6 | 1.4 | 0.8 | 17.2 | 20.4 | 2.1 | 27.1 | 25.6 | 26.1 | 26.0 | 25.9 | 25.7 | 25.2 |
| 5800.00 | 21.2 | -30.0 | -8.5 | -8.6 | 1.4 | 0.8 | 17.3 | 20.1 | 2.1 | 26.1 | 25.8 | 26.2 | 26.1 | 25.9 | 25.7 | 25.3 |
| 5900.00 | 21.2 | -30.0 | -8.7 | -8.8 | 1.4 | 0.8 | 17.3 | 19.8 | 2.1 | 26.3 | 26.3 | 25.9 | 25.8 | 25.7 | 25.4 | 24.9 |
| 6000.00 | 21.3 | -30.1 | -8.4 | -8.8 | 1.4 | 0.8 | 17.3 | 19.5 | 2.1 | 24.9 | 25.2 | 24.8 | 24.6 | 24.4 | 24.1 | 23.5 |
| 6100.00 | 21.3 | -30.1 | -8.6 | -9.1 | 1.4 | 0.8 | 17.8 | 19.6 | 2.1 | 25.3 | 25.8 | 25.7 | 25.6 | 25.5 | 25.3 | 24.9 |
| 6200.00 | 21.4 | -30.3 | -8.3 | -9.1 | 1.4 | 0.8 | 18.0 | 19.6 | 2.1 | 25.2 | 25.0 | 25.2 | 25.2 | 25.1 | 24.9 | 24.6 |
| 6300.00 | 21.4 | -30.2 | -8.5 | -9.4 | 1.5 | 0.8 | 18.3 | 19.8 | 2.2 | 25.9 | 26.3 | 26.2 | 26.2 | 26.2 | 26.1 | 26.0 |
| 6400.00 | 21.5 | -30.5 | -8.2 | -9.3 | 1.5 | 0.8 | 18.5 | 19.9 | 2.2 | 25.8 | 26.3 | 26.1 | 26.0 | 26.0 | 26.0 | 25.9 |
| 6500.00 | 21.4 | -30.6 | -8.4 | -9.7 | 1.5 | 0.8 | 18.6 | 19.8 | 2.2 | 26.6 | 26.8 | 26.3 | 26.3 | 26.2 | 26.2 | 26.1 |
| 6600.00 | 21.5 | -30.7 | -8.2 | -9.7 | 1.5 | 0.9 | 18.8 | 20.0 | 2.2 | 26.1 | 26.3 | 26.5 | 26.2 | 26.2 | 26.3 | 26.2 |
| 6700.00 | 21.5 | -30.8 | -8.4 | -10.1 | 1.5 | 0.9 | 18.8 | 19.9 | 2.2 | 26.1 | 26.0 | 26.1 | 26.1 | 26.2 | 26.2 | 26.1 |
| 6800.00 | 21.5 | -31.2 | -8.2 | -10.2 | 1.6 | 0.9 | 18.8 | 20.0 | 2.2 | 26.3 | 26.9 | 26.4 | 26.4 | 26.5 | 26.5 | 26.6 |
| 6900.00 | 21.5 | -31.2 | -8.5 | -10.6 | 1.6 | 0.9 | 18.9 | 20.0 | 2.2 | 26.2 | 26.4 | 26.5 | 26.6 | 26.7 | 26.8 | 26.9 |
| 7000.00 | 21.5 | -31.6 | -8.2 | -10.7 | 1.6 | 0.9 | 19.0 | 20.0 | 2.3 | 26.2 | 26.3 | 26.1 | 26.2 | 26.2 | 26.4 | 26.5 |
| 7100.00 | 21.4 | -31.7 | -8.5 | -11.3 | 1.7 | 0.9 | 18.9 | 20.0 | 2.3 | 26.6 | 26.3 | 26.5 | 26.6 | 26.6 | 26.7 | 26.9 |
| 7200.00 | 21.3 | -32.3 | -8.3 | -11.5 | 1.8 | 1.0 | 18.9 | 20.0 | 2.4 | 26.4 | 26.5 | 26.4 | 26.5 | 26.6 | 26.8 | 26.9 |
| 7300.00 | 21.2 | -32.5 | -8.5 | -12.2 | 1.9 | 1.0 | 18.8 | 19.8 | 2.4 | 26.0 | 26.1 | 26.0 | 26.0 | 26.1 | 26.4 | 26.5 |
| 7400.00 | 21.1 | -33.0 | -8.2 | -12.4 | 2.0 | 1.0 | 18.9 | 19.8 | 2.5 | 25.8 | 26.0 | 26.1 | 26.1 | 26.3 | 26.5 | 26.6 |
| 7500.00 | 20.8 | -33.3 | -8.4 | -13.3 | 2.1 | 1.0 | 18.6 | 19.5 | 2.5 | 25.9 | 25.5 | 26.1 | 26.2 | 26.4 | 26.6 | 26.8 |
| 7600.00 | 20.6 | -34.0 | -8.0 | -13.5 | 2.3 | 1.0 | 18.5 | 19.4 | 2.6 | 25.9 | 26.2 | 26.3 | 26.3 | 26.4 | 26.6 | 26.8 |
| 7700.00 | 20.3 | -34.3 | -8.1 | -14.7 | 2.4 | 1.1 | 18.4 | 19.3 | 2.7 | 25.1 | 25.2 | 25.2 | 25.2 | 25.3 | 25.5 | 25.5 |
| 7800.00 | 19.9 | -35.5 | -7.4 | -14.7 | 2.8 | 1.1 | 18.2 | 19.1 | 2.8 | 26.1 | 26.2 | 26.0 | 26.1 | 26.2 | 26.4 | 26.6 |
| 7900.00 | 19.4 | -35.7 | -7.4 | -15.7 | 3.0 | 1.1 | 18.0 | 18.9 | 3.0 | 26.5 | 25.4 | 26.1 | 26.1 | 26.3 | 26.5 | 26.7 |
| 8000.00 | 18.9 | -37.1 | -6.6 | -15.0 | 3.5 | 1.2 | 17.7 | 18.6 | 3.1 | 25.2 | 25.6 | 25.5 | 25.5 | 25.8 | 26.0 | 26.0 |
| 8100.00 | 18.2 | -37.4 | -6.3 | -15.1 | 3.7 | 1.2 | 17.5 | 18.3 | 3.2 | 25.1 | 25.6 | 25.6 | 25.7 | 25.8 | 26.1 | 25.9 |
| 8200.00 | 17.3 | -39.2 | -5.4 | -13.4 | 4.6 | 1.2 | 17.1 | 17.9 | 3.4 | 25.1 | | 24.9 | 25.1 | 25.2 | 25.4 | 24.6 |
| 8300.00 | 16.6 | -39.2 | -5.1 | -12.7 | 4.8 | 1.2 | 16.8 | 17.5 | 3.6 | 24.9 | 25.1 | 25.4 | 25.4 | 25.7 | 25.8 | 25.0 |
| 8400.00 | 15.4 | -41.4 | -4.4 | -10.9 | 6.3 | 1.3 | 16.3 | 17.0 | 3.8 | 25.8 | 26.3 | 25.8 | 26.0 | 26.0 | 26.0 | 25.1 |
| 8500.00 | 14.5 | -41.4 | -4.0 | -10.0 | 6.4 | 1.3 | 15.6 | 16.4 | 4.0 | 24.7 | 24.5 | 24.9 | 25.0 | 24.9 | 24.1 | 21.9 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 36.7 | 36.7 | 36.5 | 36.3 | 35.9 | 35.7 | 35.4 |
| 6000.0 | 34.9 | 34.8 | 34.5 | 34.2 | 33.8 | 33.4 | 33.1 |
| 7000.0 | 44.8 | 44.6 | 44.4 | 44.1 | 43.8 | 43.5 | 43.4 |
| 8000.0 | 52.7 | 52.5 | 52.2 | 51.9 | 51.6 | 51.3 | 51.3 |
| 8500.0 | 60.4 | 60.2 | 59.8 | 59.5 | 59.2 | 59.2 | 59.6 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.2 | 1.1 | 0.9 | 3.9 |
| 300.00 | -2.4 | -2.5 | -6.7 | -12.0 | 1.0 | 0.7 | 2.6 |
| 400.00 | -1.8 | -1.9 | -9.3 | -14.1 | 1.0 | 0.6 | 2.1 |
| 500.00 | -1.5 | -1.6 | -12.1 | -15.8 | 1.0 | 0.5 | 1.7 |
| 600.00 | -1.3 | -1.4 | -15.0 | -16.9 | 1.0 | 0.5 | 1.6 |
| 700.00 | -1.3 | -1.3 | -18.2 | -17.7 | 1.0 | 0.5 | 1.6 |
| 800.00 | -1.2 | -1.3 | -22.1 | -17.9 | 1.0 | 0.4 | 1.6 |
| 900.00 | -1.2 | -1.3 | -27.0 | -17.6 | 1.0 | 0.4 | 1.5 |
| 1000.00 | -1.2 | -1.3 | -30.3 | -17.3 | 1.0 | 0.4 | 1.5 |
| 1100.00 | -1.2 | -1.3 | -26.4 | -16.9 | 1.0 | 0.4 | 1.3 |
| 1200.00 | -1.2 | -1.3 | -22.9 | -16.7 | 1.0 | 0.4 | 1.3 |
| 1300.00 | -1.2 | -1.3 | -20.5 | -16.3 | 1.0 | 0.4 | 1.7 |
| 1400.00 | -1.2 | -1.4 | -18.7 | -15.8 | 1.0 | 0.4 | 1.6 |
| 1500.00 | -1.3 | -1.4 | -17.3 | -15.5 | 1.0 | 0.5 | 1.6 |
| 1600.00 | -1.3 | -1.4 | -16.3 | -15.4 | 1.0 | 0.5 | 1.7 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.3 | 1.0 | 0.5 | 1.9 |
| 1800.00 | -1.4 | -1.5 | -14.7 | -15.2 | 1.0 | 0.5 | 1.6 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 1.6 |
| 2000.00 | -1.4 | -1.6 | -13.7 | -15.0 | 1.0 | 0.5 | 1.7 |
| 2100.00 | -1.5 | -1.7 | -13.5 | -15.1 | 1.0 | 0.5 | 1.6 |
| 2200.00 | -1.5 | -1.7 | -13.2 | -15.4 | 1.0 | 0.5 | 2.0 |
| 2300.00 | -1.5 | -1.8 | -13.1 | -15.6 | 1.0 | 0.6 | 2.0 |
| 2400.00 | -1.6 | -1.8 | -13.0 | -15.8 | 1.0 | 0.6 | 2.1 |
| 2500.00 | -1.6 | -1.9 | -12.9 | -16.2 | 1.1 | 0.6 | 2.2 |
| 2600.00 | -1.6 | -1.9 | -13.0 | -16.8 | 1.1 | 0.6 | 2.2 |
| 2700.00 | -1.6 | -2.0 | -13.1 | -17.5 | 1.1 | 0.6 | 2.2 |
| 2800.00 | -1.6 | -2.0 | -13.2 | -18.2 | 1.1 | 0.6 | 2.4 |
| 2900.00 | -1.7 | -2.1 | -13.4 | -19.0 | 1.1 | 0.6 | 2.4 |
| 3000.00 | -1.7 | -2.1 | -13.5 | -20.0 | 1.1 | 0.7 | 2.2 |
| 3100.00 | -1.7 | -2.1 | -13.6 | -21.5 | 1.1 | 0.7 | 2.2 |
| 3200.00 | -1.7 | -2.1 | -13.7 | -23.1 | 1.1 | 0.7 | 2.5 |
| 3300.00 | -1.7 | -2.1 | -13.8 | -24.7 | 1.1 | 0.7 | 2.7 |
| 3400.00 | -1.7 | -2.1 | -13.9 | -26.3 | 1.1 | 0.7 | 2.5 |
| 3500.00 | -1.7 | -2.1 | -13.9 | -27.2 | 1.1 | 0.7 | 2.5 |
| 3600.00 | -1.7 | -2.1 | -13.8 | -25.8 | 1.1 | 0.7 | 2.5 |
| 3700.00 | -1.8 | -2.1 | -13.7 | -23.6 | 1.1 | 0.7 | 2.6 |
| 3800.00 | -1.8 | -2.1 | -13.5 | -21.7 | 1.1 | 0.7 | 2.5 |
| 3900.00 | -1.8 | -2.1 | -13.3 | -20.1 | 1.1 | 0.7 | 2.4 |
| 4000.00 | -1.8 | -2.2 | -13.1 | -18.6 | 1.1 | 0.7 | 2.1 |
| 4100.00 | -1.8 | -2.2 | -12.8 | -17.2 | 1.1 | 0.7 | 2.3 |
| 4200.00 | -1.8 | -2.2 | -12.4 | -16.2 | 1.1 | 0.7 | 2.3 |
| 4300.00 | -1.9 | -2.2 | -12.2 | -15.4 | 1.1 | 0.6 | 2.3 |
| 4400.00 | -1.9 | -2.3 | -12.0 | -14.6 | 1.1 | 0.6 | 1.9 |
| 4500.00 | -1.9 | -2.3 | -11.7 | -14.0 | 1.1 | 0.6 | 2.1 |
| 4600.00 | -1.9 | -2.3 | -11.5 | -13.4 | 1.1 | 0.6 | 2.8 |
| 4700.00 | -1.9 | -2.3 | -11.4 | -13.0 | 1.1 | 0.6 | 2.5 |
| 4800.00 | -2.0 | -2.4 | -11.3 | -12.7 | 1.1 | 0.6 | 2.4 |
| 4900.00 | -2.0 | -2.4 | -11.2 | -12.4 | 1.1 | 0.6 | 2.0 |
| 5000.00 | -2.0 | -2.4 | -11.1 | -12.1 | 1.1 | 0.6 | 2.0 |
| 5100.00 | -2.0 | -2.5 | -11.0 | -11.9 | 1.1 | 0.6 | 2.6 |
| 5200.00 | -2.0 | -2.5 | -11.0 | -11.8 | 1.1 | 0.6 | 2.3 |
| 5300.00 | -1.9 | -2.5 | -11.0 | -11.7 | 1.1 | 0.6 | 2.7 |
| 5400.00 | -2.0 | -2.5 | -11.1 | -11.6 | 1.1 | 0.6 | 2.0 |
| 5500.00 | -1.9 | -2.5 | -11.1 | -11.5 | 1.1 | 0.6 | 1.9 |
| 5600.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 2.1 |
| 5700.00 | -1.9 | -2.5 | -11.4 | -11.7 | 1.1 | 0.6 | 2.0 |
| 5800.00 | -1.9 | -2.5 | -11.6 | -11.6 | 1.1 | 0.6 | 1.9 |
| 5900.00 | -1.9 | -2.5 | -11.9 | -11.9 | 1.1 | 0.6 | 1.8 |
| 6000.00 | -1.8 | -2.5 | -12.0 | -11.8 | 1.1 | 0.6 | 1.9 |
| 6100.00 | -1.8 | -2.4 | -12.4 | -12.0 | 1.1 | 0.6 | 2.8 |
| 6200.00 | -1.8 | -2.4 | -12.8 | -12.3 | 1.1 | 0.6 | 2.7 |
| 6300.00 | -1.7 | -2.4 | -13.0 | -12.4 | 1.1 | 0.6 | 2.3 |
| 6400.00 | -1.7 | -2.4 | -13.5 | -12.7 | 1.1 | 0.6 | 2.7 |
| 6500.00 | -1.7 | -2.4 | -13.8 | -12.8 | 1.1 | 0.6 | 2.4 |
| 6600.00 | -1.7 | -2.4 | -14.0 | -12.8 | 1.1 | 0.6 | 2.2 |
| 6700.00 | -1.6 | -2.4 | -14.5 | -13.2 | 1.1 | 0.6 | 2.9 |
| 6800.00 | -1.7 | -2.4 | -14.8 | -13.4 | 1.1 | 0.6 | 2.4 |
| 6900.00 | -1.6 | -2.4 | -14.9 | -13.4 | 1.1 | 0.6 | 2.7 |
| 7000.00 | -1.7 | -2.4 | -15.1 | -13.5 | 1.1 | 0.6 | 2.4 |
| 7100.00 | -1.7 | -2.5 | -15.0 | -13.5 | 1.1 | 0.6 | 2.5 |
| 7200.00 | -1.7 | -2.5 | -14.9 | -13.5 | 1.1 | 0.6 | 3.0 |
| 7300.00 | -1.8 | -2.5 | -14.7 | -13.4 | 1.1 | 0.6 | 2.9 |
| 7400.00 | -1.9 | -2.6 | -14.2 | -13.0 | 1.1 | 0.6 | 3.2 |
| 7500.00 | -1.9 | -2.6 | -13.6 | -12.8 | 1.1 | 0.6 | 2.9 |
| 7600.00 | -2.0 | -2.7 | -13.2 | -12.5 | 1.2 | 0.7 | 3.0 |
| 7700.00 | -2.1 | -2.8 | -12.4 | -11.8 | 1.2 | 0.7 | 3.0 |
| 7800.00 | -2.2 | -2.9 | -11.8 | -11.4 | 1.2 | 0.7 | 3.2 |
| 7900.00 | -2.4 | -3.1 | -11.2 | -10.7 | 1.2 | 0.7 | 3.0 |
| 8000.00 | -2.5 | -3.2 | -10.2 | -10.0 | 1.2 | 0.7 | 3.6 |

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 28.6 | 27.4 | 25.4 | 22.3 | 17.4 | 14.5 | 13.6 |
| 1000.0 | 30.8 | 29.7 | 27.7 | 24.4 | 18.4 | 14.1 | 15.1 |
| 2000.0 | 32.5 | 31.8 | 30.5 | 28.2 | 24.2 | 17.8 | 16.1 |
| 4000.0 | 33.1 | 33.0 | 32.0 | 30.8 | 28.4 | 24.1 | 18.9 |
| 6000.0 | 34.2 | 33.8 | 32.7 | 31.0 | 28.0 | 22.1 | 16.8 |
| 8000.0 | 35.1 | 34.3 | 33.5 | 31.6 | 28.6 | 22.3 | 16.7 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.6 | 69.6 | 67.9 | 64.1 | 54.3 | 45.7 | 45.2 |
| 1000.0 | 71.8 | 71.7 | 71.0 | 67.9 | 57.0 | 54.8 | 50.7 |
| 2000.0 | 71.0 | 70.4 | 69.9 | 68.7 | 65.2 | 56.3 | 49.0 |
| 4000.0 | 73.6 | 73.6 | 73.8 | 74.2 | 74.9 | 73.8 | 54.9 |
| 6000.0 | 72.6 | 72.4 | 72.1 | 71.5 | 70.1 | 64.1 | 56.0 |
| 8000.0 | 83.3 | 83.2 | 83.0 | 82.5 | 81.2 | 76.9 | 66.4 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 11.4 | 8.5 |
| 1000.0 | 11.0 | 9.0 |
| 2000.0 | 12.9 | 10.5 |
| 4000.0 | 14.9 | 12.3 |
| 6000.0 | 15.3 | 12.3 |
| 8000.0 | 15.4 | 11.8 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 3 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.8 | -2.4 | -20.1 | -17.3 | 1.1 | 0.7 | 3.0 |
| 5600.00 | -1.7 | -2.4 | -20.6 | -17.2 | 1.1 | 0.7 | 3.0 |
| 5700.00 | -1.7 | -2.4 | -20.5 | -16.9 | 1.1 | 0.7 | 3.1 |
| 5800.00 | -1.7 | -2.5 | -19.9 | -16.3 | 1.1 | 0.7 | 2.9 |
| 5900.00 | -1.7 | -2.5 | -19.0 | -15.8 | 1.1 | 0.7 | 2.8 |
| 6000.00 | -1.7 | -2.5 | -18.2 | -15.2 | 1.1 | 0.7 | 3.0 |
| 6100.00 | -1.7 | -2.5 | -17.1 | -14.5 | 1.1 | 0.7 | 2.7 |
| 6200.00 | -1.7 | -2.6 | -16.3 | -13.9 | 1.1 | 0.7 | 3.1 |
| 6300.00 | -1.8 | -2.6 | -15.3 | -13.2 | 1.1 | 0.7 | 3.0 |
| 6400.00 | -1.8 | -2.7 | -14.5 | -12.7 | 1.1 | 0.7 | 3.0 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.1 | 1.1 | 0.7 | 3.0 |
| 6600.00 | -1.9 | -2.8 | -13.1 | -11.6 | 1.1 | 0.7 | 3.0 |
| 6700.00 | -1.9 | -2.8 | -12.3 | -11.1 | 1.1 | 0.7 | 3.0 |
| 6800.00 | -2.0 | -2.9 | -11.7 | -10.7 | 1.1 | 0.7 | 3.1 |
| 6900.00 | -2.0 | -3.0 | -11.0 | -10.2 | 1.1 | 0.7 | 3.3 |
| 7000.00 | -2.1 | -3.0 | -10.5 | -9.7 | 1.1 | 0.7 | 3.3 |
| 7100.00 | -2.2 | -3.1 | -9.9 | -9.3 | 1.1 | 0.7 | 3.1 |
| 7200.00 | -2.3 | -3.2 | -9.4 | -8.9 | 1.1 | 0.7 | 3.2 |
| 7300.00 | -2.4 | -3.4 | -8.8 | -8.4 | 1.1 | 0.7 | 3.3 |
| 7400.00 | -2.6 | -3.5 | -8.4 | -8.1 | 1.2 | 0.7 | 3.2 |
| 7500.00 | -2.7 | -3.6 | -7.9 | -7.7 | 1.2 | 0.6 | 3.6 |
| 7600.00 | -2.9 | -3.8 | -7.5 | -7.3 | 1.2 | 0.6 | 3.5 |
| 7700.00 | -3.1 | -3.9 | -7.0 | -6.9 | 1.2 | 0.6 | 3.6 |
| 7800.00 | -3.2 | -4.1 | -6.6 | -6.6 | 1.2 | 0.6 | 3.2 |
| 7900.00 | -3.4 | -4.3 | -6.2 | -6.2 | 1.2 | 0.6 | 4.2 |
| 8000.00 | -3.6 | -4.5 | -5.9 | -5.9 | 1.2 | 0.6 | 4.2 |
| 8100.00 | -3.8 | -4.7 | -5.4 | -5.5 | 1.2 | 0.6 | 4.5 |
| 8200.00 | -4.1 | -4.9 | -5.2 | -5.3 | 1.2 | 0.6 | 3.9 |
| 8300.00 | -4.3 | -5.1 | -4.8 | -4.9 | 1.2 | 0.6 | 4.1 |
| 8400.00 | -4.5 | -5.3 | -4.6 | -4.8 | 1.2 | 0.6 | 3.7 |
| 8500.00 | -4.7 | -5.5 | -4.2 | -4.5 | 1.2 | 0.6 | 4.1 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 14.1 | 11.2 |
| 6000.0 | 14.6 | 11.8 |
| 7000.0 | 16.2 | 12.7 |
| 8000.0 | 17.0 | 11.7 |
| 8500.0 | 15.8 | 10.4 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 70.8 | 70.7 | 70.6 | 70.1 | 68.3 | 63.7 | 57.4 | 35.7 | 35.0 | 34.0 | 33.5 | 31.3 | 27.6 | 21.3 |
| 6000.0 | 75.1 | 75.1 | 75.1 | 74.9 | 74.3 | 72.4 | 65.7 | 35.3 | 35.4 | 34.9 | 33.0 | 30.2 | 25.0 | 17.1 |
| 7000.0 | 86.0 | 85.8 | 85.6 | 85.0 | 84.0 | 80.9 | 70.6 | 36.0 | 35.7 | 35.3 | 32.3 | 29.8 | 25.9 | 20.2 |
| 8000.0 | 83.6 | 83.5 | 83.4 | 83.1 | 82.3 | 80.1 | 73.0 | 36.0 | 35.5 | 34.7 | 34.3 | 32.4 | 28.9 | 21.7 |
| 8500.0 | 93.8 | 93.7 | 93.8 | 93.8 | 92.8 | 90.9 | 99.8 | 35.4 | 34.4 | 32.8 | 30.2 | 25.6 | 17.0 | 15.5 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 91 mA, $I_{EN}$ = 2.48 mA @ Temperature = + 105°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.7 | -33.1 | -2.0 | -4.8 | 1.5 | 1.0 | 20.5 | 21.9 | 5.7 | 30.5 | 31.9 | 31.9 | 32.2 | 32.0 | 31.8 | 31.5 |
| 300.00 | 19.5 | -28.1 | -5.9 | -9.0 | 1.2 | 0.8 | 20.9 | 22.1 | 3.3 | 29.3 | 31.7 | 32.8 | 32.8 | 33.3 | 32.9 | 32.7 |
| 400.00 | 21.0 | -26.6 | -11.9 | -15.3 | 1.2 | 0.7 | 21.4 | 22.5 | 2.5 | 29.1 | 33.4 | 34.1 | 34.3 | 34.4 | 34.1 | 33.9 |
| 500.00 | 21.3 | -26.2 | -17.9 | -19.5 | 1.2 | 0.7 | 21.7 | 22.5 | 2.2 | 31.6 | 32.3 | 34.0 | 34.3 | 34.4 | 34.2 | 33.9 |
| 600.00 | 21.4 | -26.1 | -19.1 | -18.9 | 1.1 | 0.7 | 21.9 | 22.6 | 2.0 | 37.5 | 34.9 | 34.8 | 35.4 | 35.2 | 34.9 | 34.9 |
| 700.00 | 21.4 | -26.2 | -17.7 | -17.8 | 1.1 | 0.7 | 22.0 | 22.7 | 1.9 | 35.7 | 34.6 | 34.8 | 34.5 | 34.7 | 34.5 | 34.2 |
| 800.00 | 21.4 | -26.2 | -16.6 | -17.3 | 1.1 | 0.7 | 22.1 | 22.8 | 1.9 | 35.6 | 34.7 | 34.1 | 34.4 | 34.1 | 34.1 | 33.9 |
| 900.00 | 21.4 | -26.3 | -16.0 | -17.2 | 1.1 | 0.7 | 22.2 | 22.9 | 1.9 | 31.9 | 33.2 | 34.8 | 34.6 | 34.5 | 34.4 | 34.2 |
| 1000.00 | 21.4 | -26.3 | -15.7 | -17.4 | 1.1 | 0.7 | 22.2 | 22.9 | 1.9 | 34.5 | 34.7 | 35.2 | 35.1 | 35.0 | 34.8 | 34.7 |
| 1100.00 | 21.4 | -26.3 | -15.7 | -17.9 | 1.1 | 0.7 | 22.1 | 22.9 | 1.9 | 33.2 | 34.7 | 35.1 | 34.3 | 34.6 | 34.5 | 34.3 |
| 1200.00 | 21.4 | -26.3 | -15.8 | -18.6 | 1.2 | 0.7 | 22.2 | 23.0 | 1.9 | 32.6 | 34.1 | 33.8 | 34.2 | 34.3 | 34.0 | 33.9 |
| 1300.00 | 21.5 | -26.4 | -15.9 | -19.6 | 1.2 | 0.7 | 22.2 | 23.1 | 1.9 | 31.0 | 34.2 | 33.9 | 33.5 | 33.8 | 33.6 | 33.4 |
| 1400.00 | 21.5 | -26.4 | -16.1 | -20.8 | 1.2 | 0.7 | 22.2 | 23.0 | 1.9 | 33.7 | 32.8 | 34.8 | 34.2 | 34.1 | 34.0 | 34.0 |
| 1500.00 | 21.5 | -26.5 | -16.1 | -22.4 | 1.2 | 0.7 | 22.1 | 23.1 | 2.0 | 32.0 | 33.4 | 33.0 | 33.0 | 33.1 | 32.8 | 32.5 |
| 1600.00 | 21.4 | -26.6 | -16.0 | -24.5 | 1.2 | 0.7 | 22.1 | 23.1 | 1.9 | 33.9 | 33.5 | 33.1 | 33.4 | 33.5 | 33.3 | 33.1 |
| 1700.00 | 21.5 | -26.6 | -15.9 | -25.8 | 1.2 | 0.7 | 22.1 | 23.3 | 2.0 | 33.2 | 34.3 | 32.6 | 33.3 | 33.0 | 32.7 | 32.6 |
| 1800.00 | 21.5 | -26.6 | -15.7 | -27.5 | 1.2 | 0.7 | 22.0 | 23.2 | 2.0 | 32.6 | 33.3 | 32.8 | 32.5 | 32.8 | 32.7 | 32.5 |
| 1900.00 | 21.5 | -26.6 | -15.3 | -27.1 | 1.2 | 0.7 | 21.9 | 23.2 | 2.1 | 32.7 | 32.2 | 31.7 | 32.1 | 31.9 | 31.8 | 31.5 |
| 2000.00 | 21.5 | -26.8 | -14.9 | -25.1 | 1.2 | 0.7 | 21.7 | 23.0 | 2.1 | 30.8 | 33.8 | 32.5 | 32.3 | 32.3 | 32.3 | 32.0 |
| 2100.00 | 21.5 | -26.9 | -14.3 | -23.1 | 1.2 | 0.7 | 21.9 | 23.3 | 2.1 | 32.1 | 31.7 | 31.9 | 32.4 | 32.1 | 32.0 | 31.7 |
| 2200.00 | 21.5 | -27.0 | -13.8 | -21.3 | 1.2 | 0.8 | 21.8 | 23.2 | 2.1 | 31.2 | 32.1 | 32.9 | 32.5 | 32.5 | 32.6 | 32.3 |
| 2300.00 | 21.5 | -27.0 | -13.2 | -19.6 | 1.2 | 0.7 | 21.7 | 23.3 | 2.2 | 30.0 | 31.4 | 31.9 | 32.1 | 32.0 | 32.0 | 31.7 |
| 2400.00 | 21.4 | -27.2 | -12.6 | -18.2 | 1.2 | 0.8 | 21.4 | 23.2 | 2.2 | 28.7 | 31.9 | 31.5 | 31.1 | 30.8 | 30.7 | 30.4 |
| 2500.00 | 21.4 | -27.2 | -12.1 | -17.1 | 1.2 | 0.8 | 21.2 | 23.2 | 2.2 | 30.5 | 32.1 | 31.1 | 30.8 | 30.8 | 30.6 | 30.4 |
| 2600.00 | 21.4 | -27.4 | -11.6 | -16.1 | 1.2 | 0.8 | 21.0 | 23.1 | 2.3 | 29.7 | 30.4 | 30.9 | 30.6 | 30.6 | 30.4 | 30.1 |
| 2700.00 | 21.4 | -27.5 | -11.2 | -15.3 | 1.2 | 0.8 | 20.7 | 22.8 | 2.4 | 30.7 | 31.4 | 31.0 | 31.1 | 31.0 | 30.9 | 30.6 |
| 2800.00 | 21.3 | -27.6 | -10.8 | -14.6 | 1.2 | 0.8 | 20.7 | 22.7 | 2.4 | 32.5 | 30.8 | 30.8 | 30.6 | 30.6 | 30.5 | 30.2 |
| 2900.00 | 21.3 | -27.7 | -10.4 | -14.0 | 1.2 | 0.8 | 20.4 | 22.5 | 2.4 | 29.7 | | 29.4 | 29.7 | 29.6 | 29.4 | 29.1 |
| 3000.00 | 21.2 | -27.7 | -10.1 | -13.5 | 1.2 | 0.8 | 20.4 | 22.6 | 2.4 | 28.2 | 29.4 | 29.8 | 29.7 | 29.6 | 29.5 | 29.1 |
| 3100.00 | 21.2 | -27.8 | -9.8 | -13.1 | 1.2 | 0.8 | 20.2 | 22.6 | 2.4 | 28.9 | 29.8 | 29.1 | 29.3 | 29.1 | 29.0 | 28.6 |
| 3200.00 | 21.2 | -27.9 | -9.5 | -12.8 | 1.2 | 0.8 | 20.4 | 22.7 | 2.4 | 29.5 | 30.4 | 29.4 | 29.5 | 29.5 | 29.4 | 29.1 |
| 3300.00 | 21.2 | -27.9 | -9.4 | -12.7 | 1.2 | 0.8 | 20.1 | 22.6 | 2.4 | 29.4 | 29.5 | 29.3 | 29.5 | 29.3 | 29.2 | 28.9 |
| 3400.00 | 21.2 | -28.0 | -9.2 | -12.5 | 1.2 | 0.8 | 20.1 | 22.4 | 2.5 | 29.9 | 29.4 | 29.9 | 30.0 | 29.8 | 29.7 | 29.5 |
| 3500.00 | 21.2 | -28.0 | -9.2 | -12.5 | 1.2 | 0.8 | 20.2 | 22.5 | 2.5 | 29.0 | 29.6 | 29.4 | 29.1 | 29.1 | 29.0 | 28.7 |
| 3600.00 | 21.3 | -28.0 | -9.2 | -12.6 | 1.2 | 0.8 | 20.1 | 22.4 | 2.4 | 28.8 | 28.9 | 29.0 | 29.0 | 29.0 | 28.9 | 28.6 |
| 3700.00 | 21.3 | -28.1 | -9.2 | -12.8 | 1.2 | 0.8 | 20.5 | 22.7 | 2.4 | 29.9 | 29.6 | 29.7 | 30.1 | 30.0 | 30.0 | 29.8 |
| 3800.00 | 21.3 | -28.1 | -9.3 | -13.0 | 1.3 | 0.8 | 20.5 | 22.7 | 2.4 | 28.8 | 29.8 | 28.9 | 28.9 | 29.0 | 29.0 | 28.7 |
| 3900.00 | 21.4 | -28.2 | -9.4 | -13.3 | 1.3 | 0.8 | 20.5 | 22.7 | 2.4 | 30.6 | 29.5 | 29.4 | 29.3 | 29.2 | 29.2 | 29.0 |
| 4000.00 | 21.4 | -28.2 | -9.6 | -13.6 | 1.3 | 0.8 | 20.4 | 22.7 | 2.4 | 29.5 | 29.2 | 29.5 | 29.6 | 29.6 | 29.6 | 29.5 |
| 4100.00 | 21.5 | -28.2 | -9.9 | -14.2 | 1.3 | 0.8 | 20.4 | 22.8 | 2.3 | 29.0 | 29.0 | 29.3 | 29.4 | 29.3 | 29.2 | 29.1 |
| 4200.00 | 21.6 | -28.2 | -10.1 | -14.8 | 1.3 | 0.8 | 20.5 | 22.8 | 2.3 | 29.1 | 29.8 | 29.3 | 29.2 | 29.1 | 29.2 | 29.0 |
| 4300.00 | 21.6 | -28.4 | -10.4 | -15.2 | 1.3 | 0.8 | 20.3 | 22.7 | 2.4 | 28.4 | 29.1 | 29.3 | 29.5 | 29.4 | 29.3 | 29.2 |
| 4400.00 | 21.6 | -28.3 | -10.9 | -15.9 | 1.3 | 0.8 | 20.2 | 22.6 | 2.3 | 29.4 | 28.7 | 28.7 | 29.0 | 29.0 | 29.0 | 28.9 |
| 4500.00 | 21.7 | -28.3 | -11.2 | -16.6 | 1.3 | 0.8 | 20.0 | 22.5 | 2.3 | 28.9 | 29.3 | 28.7 | 29.0 | 29.0 | 28.9 | 28.7 |
| 4600.00 | 21.8 | -28.4 | -11.7 | -17.3 | 1.3 | 0.8 | 19.7 | 22.3 | 2.3 | 28.8 | 29.4 | 28.8 | 28.7 | 28.8 | 28.7 | 28.5 |
| 4700.00 | 21.8 | -28.4 | -12.3 | -18.2 | 1.3 | 0.8 | 19.8 | 22.4 | 2.3 | 28.1 | 28.4 | 28.6 | 28.4 | 28.4 | 28.4 | 28.2 |
| 4800.00 | 21.9 | -28.5 | -12.6 | -18.5 | 1.3 | 0.8 | 20.0 | 22.4 | 2.3 | 28.5 | 28.9 | 28.9 | 28.8 | 28.9 | 28.9 | 28.8 |
| 4900.00 | 21.9 | -28.6 | -13.3 | -19.2 | 1.3 | 0.8 | 19.8 | 22.2 | 2.4 | 28.3 | 28.7 | 28.3 | 28.3 | 28.2 | 28.2 | 28.0 |
| 5000.00 | 22.0 | -28.5 | -13.6 | -20.1 | 1.3 | 0.8 | 19.7 | 22.0 | 2.3 | 27.3 | 28.6 | 28.0 | 28.0 | 28.0 | 27.9 | 27.7 |
| 5100.00 | 22.1 | -28.7 | -13.9 | -20.3 | 1.3 | 0.8 | 20.1 | 22.2 | 2.3 | 28.2 | 28.3 | 27.9 | 27.9 | 27.9 | 27.9 | 27.8 |
| 5200.00 | 22.0 | -28.7 | -14.4 | -20.9 | 1.3 | 0.8 | 20.1 | 22.2 | 2.4 | 27.8 | 28.2 | 28.1 | 28.0 | 28.1 | 28.1 | 28.1 |
| 5300.00 | 22.1 | -28.8 | -14.2 | -20.6 | 1.3 | 0.8 | 19.7 | 22.0 | 2.4 | 27.9 | 28.6 | 27.9 | 27.9 | 27.9 | 27.9 | 27.8 |
| 5400.00 | 22.1 | -29.1 | -14.1 | -20.2 | 1.4 | 0.8 | 19.1 | 21.7 | 2.3 | 27.5 | 28.2 | 27.8 | 27.8 | 27.9 | 27.8 | 27.6 |
| 5500.00 | 22.1 | -29.0 | -14.0 | -20.8 | 1.4 | 0.8 | 18.8 | 21.4 | 2.4 | 26.7 | 27.8 | 26.9 | 27.0 | 27.0 | 26.9 | 26.6 |
| 5600.00 | 22.2 | -29.2 | -12.9 | -19.5 | 1.4 | 0.8 | 18.3 | 20.9 | 2.4 | 27.0 | 27.7 | 27.4 | 27.2 | 27.1 | 27.0 | 26.6 |
| 5700.00 | 22.0 | -29.5 | -12.5 | -18.8 | 1.4 | 0.9 | 18.2 | 20.6 | 2.5 | 26.7 | 27.5 | 26.4 | 26.3 | 26.2 | 26.0 | 25.5 |
| 5800.00 | 22.1 | -29.4 | -11.8 | -18.5 | 1.4 | 0.9 | 18.3 | 20.3 | 2.5 | 26.7 | 26.9 | 26.3 | 26.2 | 26.1 | 25.9 | 25.5 |
| 5900.00 | 22.0 | -29.8 | -10.5 | -16.8 | 1.4 | 0.9 | 18.3 | 20.1 | 2.5 | 26.4 | 26.5 | 26.5 | 26.4 | 26.3 | 26.2 | 25.8 |
| 6000.00 | 21.8 | -29.9 | -10.3 | -16.6 | 1.4 | 0.9 | 18.2 | 19.8 | 2.5 | 26.5 | 26.6 | 26.3 | 26.1 | 26.0 | 25.8 | 25.4 |
| 6100.00 | 21.9 | -30.0 | -9.2 | -15.4 | 1.4 | 0.9 | 18.4 | 19.8 | 2.6 | 26.6 | 26.5 | 26.5 | 26.4 | 26.4 | 26.2 | 25.9 |
| 6200.00 | 21.6 | -30.7 | -8.3 | -14.0 | 1.5 | 1.0 | 18.3 | 19.6 | 2.7 | 26.5 | 25.6 | 26.2 | 26.2 | 26.2 | 26.0 | 25.7 |
| 6300.00 | 21.5 | -30.6 | -7.9 | -13.7 | 1.5 | 1.0 | 18.3 | 19.5 | 2.7 | 26.0 | 25.9 | 25.6 | 25.6 | 25.5 | 25.4 | 25.1 |
| 6400.00 | 21.4 | -31.1 | -7.0 | -12.4 | 1.5 | 1.0 | 18.3 | 19.4 | 2.7 | 25.8 | 25.9 | 26.1 | 26.1 | 26.0 | 25.9 | 25.6 |
| 6500.00 | 21.0 | -31.8 | -6.4 | -11.6 | 1.6 | 1.0 | 18.2 | 19.4 | 2.8 | 25.5 | 25.1 | 25.7 | 25.7 | 25.6 | 25.5 | 25.1 |
| 6600.00 | 20.9 | -31.9 | -5.9 | -11.1 | 1.6 | 1.0 | 18.2 | 19.3 | 2.8 | 25.7 | 25.3 | 25.3 | 25.4 | 25.3 | 25.1 | 24.7 |
| 6700.00 | 20.6 | -32.7 | -5.2 | -10.1 | 1.6 | 1.1 | 17.9 | 19.0 | 2.8 | 25.4 | 25.1 | 25.7 | 25.5 | 25.4 | 25.1 | 24.7 |
| 6800.00 | 20.1 | -33.4 | -4.9 | -9.5 | 1.8 | 1.1 | 17.7 | 18.8 | 2.9 | 25.2 | 26.1 | 25.1 | 25.0 | 24.8 | 24.6 | 24.1 |
| 6900.00 | 19.9 | -33.8 | -4.4 | -9.0 | 1.8 | 1.1 | 17.5 | 18.6 | 3.0 | 24.9 | 24.5 | 24.8 | 24.7 | 24.6 | 24.3 | 23.8 |
| 7000.00 | 19.4 | -34.9 | -4.0 | -8.3 | 2.0 | 1.1 | 17.2 | 18.2 | 3.0 | 24.6 | 25.1 | 24.8 | 24.6 | 24.4 | 24.1 | 23.6 |
| 7100.00 | 18.8 | -35.8 | -3.9 | -8.0 | 2.2 | 1.1 | 16.9 | 17.9 | 3.0 | 25.0 | 24.9 | 24.9 | 24.7 | 24.4 | 24.1 | 23.6 |
| 7200.00 | 18.4 | -36.7 | -3.6 | -7.5 | 2.4 | 1.1 | 16.5 | 17.5 | 3.1 | 24.7 | 24.5 | 24.5 | 24.3 | 24.0 | 23.7 | 23.1 |
| 7300.00 | 17.7 | -38.4 | -3.4 | -7.1 | 2.9 | 1.1 | 16.1 | 17.0 | 3.1 | 24.0 | 24.9 | 23.8 | 23.5 | 23.3 | 22.9 | 22.2 |
| 7400.00 | 17.0 | -39.4 | -3.4 | -7.0 | 3.4 | 1.1 | 15.7 | 16.6 | 3.1 | 24.7 | 24.7 | 24.3 | 24.1 | 23.8 | 23.4 | 22.7 |
| 7500.00 | 16.4 | -41.0 | -3.3 | -6.7 | 4.1 | 1.1 | 15.2 | 16.1 | 3.1 | 23.4 | 24.0 | 23.3 | 22.9 | 22.5 | 21.9 | 21.1 |
| 7600.00 | 15.5 | -42.6 | -3.3 | -6.5 | 5.3 | 1.1 | 14.7 | 15.5 | 3.2 | 23.7 | 23.6 | 22.8 | 22.5 | 22.1 | 21.4 | 20.5 |
| 7700.00 | 14.8 | -43.8 | -3.4 | -6.4 | 6.6 | 1.1 | 14.1 | 14.8 | 3.2 | 22.5 | 23.0 | 22.1 | 21.7 | 21.1 | 20.4 | 19.2 |
| 7800.00 | 13.8 | -46.5 | -3.4 | -6.1 | 9.6 | 1.1 | 13.2 | 14.0 | 3.3 | 22.9 | 22.6 | 22.4 | 22.0 | 21.4 | 20.7 | 19.4 |
| 7900.00 | 12.4 | -46.4 | -3.7 | -5.9 | 11.3 | 1.1 | 12.2 | 12.9 | 3.4 | 20.8 | 20.9 | 20.1 | 19.5 | 18.6 | 17.1 | 11.9 |
| 8000.00 | 11.3 | -47.8 | -3.7 | -5.8 | 14.9 | 1.1 | 11.0 | 11.7 | 3.5 | 20.4 | 19.6 | 19.6 | 18.9 | 18.0 | 16.1 | 10.6 |

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 91 mA, $I_{EN}$ = 2.48 mA @ Temperature = + 105°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 44.5 | 44.3 | 44.3 | 44.3 | 44.1 | 44.0 | 43.6 |
| 1000.0 | 43.4 | 43.3 | 43.2 | 43.1 | 42.9 | 42.7 | 42.3 |
| 2000.0 | 41.7 | 41.5 | 41.3 | 41.1 | 40.9 | 40.7 | 40.5 |
| 4000.0 | 44.1 | 44.0 | 44.0 | 44.0 | 43.8 | 43.5 | 43.2 |
| 6000.0 | 34.2 | 34.0 | 33.8 | 33.6 | 33.3 | 33.1 | 32.9 |
| 8000.0 | 38.7 | 38.3 | 38.0 | 38.0 | 38.6 | 40.1 | 42.5 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = +5.75 V, $I_{DD}$ = 98 mA, $I_{EN}$ = 2.46 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.2 | -29.8 | -8.6 | -8.6 | 1.4 | 0.8 | 18.5 | 21.1 | 2.2 | 28.6 | 28.4 | 28.0 | 28.1 | 28.1 | 28.0 | 27.8 |
| 5600.00 | 21.4 | -29.8 | -8.4 | -8.6 | 1.4 | 0.8 | 18.1 | 20.8 | 2.1 | 27.1 | 26.8 | 26.7 | 26.9 | 26.8 | 26.6 | 26.3 |
| 5700.00 | 21.4 | -29.9 | -8.6 | -8.8 | 1.4 | 0.8 | 18.0 | 20.6 | 2.1 | 26.9 | 26.9 | 26.8 | 26.9 | 26.9 | 26.9 | 26.5 |
| 5800.00 | 21.5 | -30.0 | -8.4 | -8.8 | 1.4 | 0.8 | 18.0 | 20.4 | 2.1 | 27.1 | 26.8 | 26.9 | 26.9 | 26.9 | 26.8 | 26.6 |
| 5900.00 | 21.5 | -30.0 | -8.6 | -9.0 | 1.4 | 0.8 | 18.0 | 20.1 | 2.1 | 26.6 | 27.1 | 26.6 | 26.7 | 26.6 | 26.6 | 26.3 |
| 6000.00 | 21.6 | -30.0 | -8.3 | -8.9 | 1.4 | 0.8 | 17.9 | 19.8 | 2.1 | 25.8 | 25.6 | 25.6 | 25.6 | 25.5 | 25.3 | 24.9 |
| 6100.00 | 21.6 | -30.0 | -8.5 | -9.2 | 1.4 | 0.8 | 18.4 | 20.0 | 2.1 | 26.7 | 26.9 | 26.2 | 26.4 | 26.4 | 26.4 | 26.2 |
| 6200.00 | 21.7 | -30.3 | -8.2 | -9.1 | 1.4 | 0.8 | 18.6 | 20.0 | 2.2 | 26.0 | 25.8 | 25.8 | 26.0 | 26.0 | 26.0 | 25.8 |
| 6300.00 | 21.7 | -30.3 | -8.4 | -9.4 | 1.4 | 0.8 | 18.9 | 20.2 | 2.2 | 26.5 | 26.7 | 26.7 | 26.8 | 26.9 | 27.1 | 27.1 |
| 6400.00 | 21.8 | -30.6 | -8.1 | -9.3 | 1.4 | 0.8 | 19.1 | 20.3 | 2.2 | 26.1 | 26.6 | 26.4 | 26.6 | 26.8 | 27.0 | 27.0 |
| 6500.00 | 21.7 | -30.5 | -8.3 | -9.6 | 1.4 | 0.8 | 19.1 | 20.2 | 2.2 | 26.1 | 26.6 | 26.7 | 26.7 | 27.0 | 27.1 | 27.2 |
| 6600.00 | 21.8 | -31.0 | -8.0 | -9.6 | 1.5 | 0.9 | 19.2 | 20.4 | 2.2 | 27.1 | 26.5 | 26.6 | 26.8 | 27.0 | 27.1 | 27.2 |
| 6700.00 | 21.8 | -31.0 | -8.3 | -10.0 | 1.5 | 0.9 | 19.2 | 20.4 | 2.2 | 25.9 | 26.5 | 26.5 | 26.7 | 26.8 | 27.1 | 27.2 |
| 6800.00 | 21.8 | -31.3 | -8.0 | -10.0 | 1.5 | 0.9 | 19.3 | 20.4 | 2.2 | 26.7 | 26.3 | 26.8 | 26.9 | 27.1 | 27.3 | 27.5 |
| 6900.00 | 21.8 | -31.4 | -8.3 | -10.4 | 1.6 | 0.9 | 19.4 | 20.5 | 2.2 | 26.0 | 27.2 | 26.8 | 26.9 | 27.2 | 27.5 | 27.8 |
| 7000.00 | 21.7 | -31.8 | -8.0 | -10.5 | 1.6 | 0.9 | 19.4 | 20.4 | 2.3 | 26.4 | 26.5 | 26.4 | 26.6 | 26.8 | 27.1 | 27.3 |
| 7100.00 | 21.7 | -32.0 | -8.3 | -11.0 | 1.7 | 0.9 | 19.3 | 20.3 | 2.3 | 26.7 | 26.4 | 26.7 | 26.9 | 27.1 | 27.5 | 27.7 |
| 7200.00 | 21.6 | -32.4 | -8.0 | -11.1 | 1.7 | 0.9 | 19.3 | 20.3 | 2.4 | 26.5 | 26.3 | 26.6 | 26.8 | 27.1 | 27.4 | 27.7 |
| 7300.00 | 21.4 | -32.7 | -8.3 | -11.8 | 1.8 | 1.0 | 19.2 | 20.2 | 2.4 | 25.8 | 26.4 | 26.2 | 26.4 | 26.7 | 27.0 | 27.3 |
| 7400.00 | 21.3 | -33.3 | -8.0 | -12.1 | 2.0 | 1.0 | 19.2 | 20.2 | 2.5 | 26.2 | 25.9 | 26.2 | 26.5 | 26.8 | 27.1 | 27.4 |
| 7500.00 | 21.1 | -33.6 | -8.2 | -13.0 | 2.1 | 1.0 | 19.0 | 19.9 | 2.6 | 26.1 | 26.4 | 26.3 | 26.6 | 26.8 | 27.3 | 27.5 |
| 7600.00 | 20.9 | -34.3 | -7.7 | -13.2 | 2.2 | 1.0 | 18.8 | 19.7 | 2.6 | 26.6 | 26.3 | 26.4 | 26.6 | 26.9 | 27.2 | 27.5 |
| 7700.00 | 20.5 | -34.6 | -7.8 | -14.4 | 2.4 | 1.1 | 18.7 | 19.6 | 2.7 | 25.1 | 25.3 | 25.4 | 25.6 | 25.8 | 26.2 | 26.2 |
| 7800.00 | 20.2 | -35.7 | -7.2 | -14.5 | 2.7 | 1.1 | 18.5 | 19.4 | 2.8 | 25.8 | 25.8 | 26.1 | 26.4 | 26.6 | 27.0 | 27.2 |
| 7900.00 | 19.6 | -36.2 | -7.1 | -15.7 | 3.0 | 1.1 | 18.3 | 19.2 | 2.9 | 25.8 | 25.8 | 26.0 | 26.3 | 26.7 | 27.1 | 27.3 |
| 8000.00 | 19.1 | -37.6 | -6.3 | -15.1 | 3.6 | 1.2 | 18.0 | 18.9 | 3.1 | 25.0 | 25.1 | 25.7 | 25.8 | 26.2 | 26.6 | 26.6 |
| 8100.00 | 18.4 | -37.8 | -6.1 | -15.3 | 3.8 | 1.2 | 17.7 | 18.5 | 3.2 | 25.8 | 25.1 | 25.6 | 25.9 | 26.2 | 26.6 | 26.5 |
| 8200.00 | 17.5 | -39.6 | -5.2 | -13.7 | 4.7 | 1.2 | 17.4 | 18.1 | 3.4 | 24.8 | | 25.1 | 25.4 | 25.8 | 26.0 | 25.1 |
| 8300.00 | 16.8 | -40.0 | -5.0 | -13.0 | 5.1 | 1.3 | 17.0 | 17.7 | 3.5 | 24.9 | 24.6 | 25.5 | 25.8 | 26.2 | 26.4 | 25.6 |
| 8400.00 | 15.5 | -41.9 | -4.2 | -11.1 | 6.5 | 1.3 | 16.5 | 17.2 | 3.8 | 26.1 | 25.8 | 26.0 | 26.3 | 26.7 | 26.7 | 25.7 |
| 8500.00 | 14.6 | -42.1 | -3.9 | -10.2 | 6.9 | 1.3 | 15.8 | 16.5 | 4.0 | 24.5 | 24.7 | 25.1 | 25.4 | 25.6 | 24.7 | 22.3 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 37.3 | 37.3 | 37.1 | 37.0 | 36.8 | 36.5 | 36.3 |
| 6000.0 | 35.3 | 35.1 | 35.0 | 34.7 | 34.4 | 34.2 | 33.9 |
| 7000.0 | 45.0 | 44.8 | 44.7 | 44.5 | 44.2 | 44.0 | 43.9 |
| 8000.0 | 53.0 | 52.8 | 52.6 | 52.4 | 52.1 | 51.9 | 51.9 |
| 8500.0 | 60.7 | 60.4 | 60.2 | 60.0 | 59.7 | 59.7 | 60.1 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.2 | 1.1 | 0.9 | 3.8 |
| 300.00 | -2.4 | -2.5 | -6.7 | -12.0 | 1.0 | 0.7 | 2.6 |
| 400.00 | -1.8 | -1.9 | -9.3 | -14.1 | 1.0 | 0.6 | 2.0 |
| 500.00 | -1.5 | -1.5 | -12.0 | -15.7 | 1.0 | 0.5 | 1.8 |
| 600.00 | -1.3 | -1.4 | -14.9 | -16.9 | 1.0 | 0.5 | 1.5 |
| 700.00 | -1.3 | -1.3 | -18.1 | -17.7 | 1.0 | 0.5 | 1.6 |
| 800.00 | -1.2 | -1.3 | -22.1 | -17.8 | 1.0 | 0.4 | 1.6 |
| 900.00 | -1.2 | -1.3 | -26.9 | -17.5 | 1.0 | 0.4 | 1.5 |
| 1000.00 | -1.2 | -1.3 | -30.1 | -17.2 | 1.0 | 0.4 | 1.4 |
| 1100.00 | -1.2 | -1.3 | -26.3 | -16.9 | 1.0 | 0.4 | 1.6 |
| 1200.00 | -1.2 | -1.3 | -22.9 | -16.6 | 1.0 | 0.4 | 1.6 |
| 1300.00 | -1.2 | -1.3 | -20.5 | -16.2 | 1.0 | 0.4 | 1.5 |
| 1400.00 | -1.2 | -1.4 | -18.7 | -15.8 | 1.0 | 0.5 | 1.6 |
| 1500.00 | -1.3 | -1.4 | -17.3 | -15.5 | 1.0 | 0.5 | 1.4 |
| 1600.00 | -1.3 | -1.5 | -16.2 | -15.4 | 1.0 | 0.5 | 1.4 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.3 | 1.0 | 0.5 | 1.9 |
| 1800.00 | -1.4 | -1.5 | -14.7 | -15.2 | 1.0 | 0.5 | 1.9 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 2.2 |
| 2000.00 | -1.5 | -1.6 | -13.7 | -15.0 | 1.0 | 0.5 | 2.2 |
| 2100.00 | -1.5 | -1.7 | -13.5 | -15.2 | 1.0 | 0.5 | 2.0 |
| 2200.00 | -1.5 | -1.7 | -13.2 | -15.4 | 1.0 | 0.5 | 2.1 |
| 2300.00 | -1.5 | -1.8 | -13.1 | -15.6 | 1.0 | 0.6 | 2.1 |
| 2400.00 | -1.6 | -1.8 | -13.0 | -15.8 | 1.0 | 0.6 | 2.1 |
| 2500.00 | -1.6 | -1.9 | -12.9 | -16.2 | 1.1 | 0.6 | 2.1 |
| 2600.00 | -1.6 | -2.0 | -13.0 | -16.8 | 1.1 | 0.6 | 2.1 |
| 2700.00 | -1.6 | -2.0 | -13.1 | -17.5 | 1.1 | 0.6 | 2.3 |
| 2800.00 | -1.6 | -2.0 | -13.2 | -18.2 | 1.1 | 0.6 | 2.0 |
| 2900.00 | -1.7 | -2.1 | -13.4 | -18.9 | 1.1 | 0.6 | 2.5 |
| 3000.00 | -1.7 | -2.1 | -13.5 | -20.0 | 1.1 | 0.7 | 2.1 |
| 3100.00 | -1.7 | -2.1 | -13.6 | -21.4 | 1.1 | 0.7 | 2.4 |
| 3200.00 | -1.7 | -2.1 | -13.7 | -23.1 | 1.1 | 0.7 | 2.3 |
| 3300.00 | -1.7 | -2.1 | -13.8 | -24.6 | 1.1 | 0.7 | 2.8 |
| 3400.00 | -1.7 | -2.1 | -13.8 | -26.1 | 1.1 | 0.7 | 2.4 |
| 3500.00 | -1.7 | -2.1 | -13.8 | -26.9 | 1.1 | 0.7 | 2.5 |
| 3600.00 | -1.7 | -2.1 | -13.7 | -25.5 | 1.1 | 0.7 | 2.6 |
| 3700.00 | -1.8 | -2.1 | -13.7 | -23.5 | 1.1 | 0.7 | 2.5 |
| 3800.00 | -1.8 | -2.1 | -13.4 | -21.5 | 1.1 | 0.7 | 2.4 |
| 3900.00 | -1.8 | -2.1 | -13.2 | -20.0 | 1.1 | 0.7 | 2.5 |
| 4000.00 | -1.8 | -2.2 | -13.0 | -18.5 | 1.1 | 0.7 | 2.2 |
| 4100.00 | -1.8 | -2.2 | -12.7 | -17.1 | 1.1 | 0.7 | 2.5 |
| 4200.00 | -1.9 | -2.2 | -12.4 | -16.1 | 1.1 | 0.7 | 2.4 |
| 4300.00 | -1.9 | -2.2 | -12.2 | -15.3 | 1.1 | 0.6 | 2.3 |
| 4400.00 | -1.9 | -2.3 | -11.9 | -14.6 | 1.1 | 0.6 | 2.1 |
| 4500.00 | -1.9 | -2.3 | -11.7 | -14.0 | 1.1 | 0.6 | 2.1 |
| 4600.00 | -1.9 | -2.3 | -11.5 | -13.4 | 1.1 | 0.6 | 2.6 |
| 4700.00 | -2.0 | -2.4 | -11.4 | -13.0 | 1.1 | 0.6 | 2.4 |
| 4800.00 | -2.0 | -2.4 | -11.2 | -12.7 | 1.1 | 0.6 | 2.3 |
| 4900.00 | -2.0 | -2.4 | -11.2 | -12.4 | 1.1 | 0.6 | 2.5 |
| 5000.00 | -2.0 | -2.4 | -11.0 | -12.1 | 1.1 | 0.6 | 2.2 |
| 5100.00 | -2.0 | -2.5 | -11.0 | -11.9 | 1.1 | 0.6 | 2.4 |
| 5200.00 | -2.0 | -2.5 | -11.0 | -11.8 | 1.1 | 0.6 | 2.5 |
| 5300.00 | -1.9 | -2.5 | -11.0 | -11.7 | 1.1 | 0.6 | 2.2 |
| 5400.00 | -2.0 | -2.5 | -11.1 | -11.6 | 1.1 | 0.6 | 2.1 |
| 5500.00 | -1.9 | -2.5 | -11.1 | -11.5 | 1.1 | 0.6 | 2.0 |
| 5600.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 2.5 |
| 5700.00 | -1.9 | -2.5 | -11.4 | -11.7 | 1.1 | 0.6 | 2.2 |
| 5800.00 | -1.9 | -2.5 | -11.5 | -11.6 | 1.1 | 0.6 | 2.0 |
| 5900.00 | -1.9 | -2.5 | -11.9 | -11.9 | 1.1 | 0.6 | 1.8 |
| 6000.00 | -1.8 | -2.5 | -12.0 | -11.8 | 1.1 | 0.6 | 1.9 |
| 6100.00 | -1.8 | -2.4 | -12.4 | -12.0 | 1.1 | 0.6 | 2.5 |
| 6200.00 | -1.8 | -2.4 | -12.8 | -12.3 | 1.1 | 0.6 | 2.0 |
| 6300.00 | -1.7 | -2.4 | -13.0 | -12.4 | 1.1 | 0.6 | 2.5 |
| 6400.00 | -1.7 | -2.4 | -13.4 | -12.6 | 1.1 | 0.6 | 2.6 |
| 6500.00 | -1.7 | -2.4 | -13.7 | -12.7 | 1.1 | 0.6 | 1.5 |
| 6600.00 | -1.7 | -2.4 | -14.0 | -12.8 | 1.1 | 0.6 | 2.3 |
| 6700.00 | -1.6 | -2.4 | -14.5 | -13.2 | 1.1 | 0.6 | 2.5 |
| 6800.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 2.4 |
| 6900.00 | -1.7 | -2.4 | -14.9 | -13.4 | 1.1 | 0.6 | 3.0 |
| 7000.00 | -1.7 | -2.4 | -15.1 | -13.5 | 1.1 | 0.6 | 2.4 |
| 7100.00 | -1.7 | -2.5 | -15.0 | -13.5 | 1.1 | 0.6 | 2.3 |
| 7200.00 | -1.7 | -2.5 | -14.9 | -13.5 | 1.1 | 0.6 | 2.9 |
| 7300.00 | -1.8 | -2.5 | -14.7 | -13.4 | 1.1 | 0.6 | 2.3 |
| 7400.00 | -1.9 | -2.6 | -14.1 | -13.0 | 1.1 | 0.6 | 3.1 |
| 7500.00 | -1.9 | -2.6 | -13.6 | -12.8 | 1.1 | 0.6 | 2.7 |
| 7600.00 | -2.0 | -2.8 | -13.2 | -12.4 | 1.2 | 0.7 | 2.6 |
| 7700.00 | -2.1 | -2.8 | -12.3 | -11.8 | 1.2 | 0.7 | 2.9 |
| 7800.00 | -2.2 | -2.9 | -11.8 | -11.4 | 1.2 | 0.7 | 3.5 |
| 7900.00 | -2.4 | -3.1 | -11.1 | -10.7 | 1.2 | 0.7 | 3.0 |
| 8000.00 | -2.5 | -3.2 | -10.2 | -10.0 | 1.2 | 0.7 | 3.5 |

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 27.8 | 26.7 | 24.8 | 21.7 | 16.6 | 14.3 | 13.2 |
| 1000.0 | 29.9 | 28.9 | 27.0 | 23.7 | 17.6 | 14.0 | 14.8 |
| 2000.0 | 31.5 | 30.9 | 29.6 | 27.4 | 23.3 | 17.0 | 16.0 |
| 4000.0 | 32.0 | 31.8 | 30.9 | 29.6 | 27.4 | 23.0 | 18.4 |
| 6000.0 | 33.2 | 32.7 | 31.6 | 30.0 | 26.9 | 20.8 | 16.5 |
| 8000.0 | 33.8 | 33.2 | 32.2 | 30.6 | 27.4 | 20.6 | 16.3 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.2 | 69.1 | 67.2 | 63.1 | 53.0 | 45.3 | 44.6 |
| 1000.0 | 71.5 | 71.3 | 70.4 | 66.7 | 54.9 | 56.7 | 50.3 |
| 2000.0 | 70.4 | 70.0 | 69.3 | 67.9 | 63.9 | 55.6 | 47.8 |
| 4000.0 | 73.7 | 73.8 | 74.0 | 74.4 | 75.1 | 73.4 | 52.1 |
| 6000.0 | 72.3 | 72.2 | 71.9 | 71.4 | 69.8 | 62.6 | 55.5 |
| 8000.0 | 83.3 | 83.0 | 82.8 | 82.3 | 80.8 | 75.3 | 65.3 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 11.2 | 8.3 |
| 1000.0 | 10.8 | 8.8 |
| 2000.0 | 12.7 | 10.3 |
| 4000.0 | 14.7 | 12.0 |
| 6000.0 | 14.9 | 12.0 |
| 8000.0 | 15.1 | 11.5 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +5.75 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.8 | -2.4 | -20.0 | -17.3 | 1.1 | 0.7 | 3.2 |
| 5600.00 | -1.7 | -2.4 | -20.5 | -17.1 | 1.1 | 0.7 | 3.0 |
| 5700.00 | -1.7 | -2.5 | -20.4 | -16.8 | 1.1 | 0.7 | 2.9 |
| 5800.00 | -1.7 | -2.5 | -19.9 | -16.2 | 1.1 | 0.7 | 3.0 |
| 5900.00 | -1.7 | -2.5 | -19.0 | -15.7 | 1.1 | 0.7 | 3.1 |
| 6000.00 | -1.7 | -2.5 | -18.2 | -15.1 | 1.1 | 0.7 | 2.9 |
| 6100.00 | -1.7 | -2.5 | -17.1 | -14.4 | 1.1 | 0.7 | 3.0 |
| 6200.00 | -1.7 | -2.6 | -16.2 | -13.8 | 1.1 | 0.7 | 3.0 |
| 6300.00 | -1.8 | -2.6 | -15.2 | -13.2 | 1.1 | 0.7 | 3.2 |
| 6400.00 | -1.8 | -2.7 | -14.5 | -12.7 | 1.1 | 0.7 | 2.9 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.1 | 1.1 | 0.7 | 3.0 |
| 6600.00 | -1.9 | -2.8 | -13.0 | -11.6 | 1.1 | 0.7 | 3.1 |
| 6700.00 | -1.9 | -2.8 | -12.3 | -11.1 | 1.1 | 0.7 | 3.0 |
| 6800.00 | -2.0 | -2.9 | -11.7 | -10.7 | 1.1 | 0.7 | 3.2 |
| 6900.00 | -2.0 | -3.0 | -11.0 | -10.1 | 1.1 | 0.7 | 3.0 |
| 7000.00 | -2.1 | -3.1 | -10.5 | -9.7 | 1.1 | 0.7 | 3.3 |
| 7100.00 | -2.2 | -3.2 | -9.9 | -9.3 | 1.1 | 0.7 | 3.2 |
| 7200.00 | -2.3 | -3.2 | -9.4 | -8.9 | 1.1 | 0.7 | 3.3 |
| 7300.00 | -2.5 | -3.4 | -8.8 | -8.4 | 1.1 | 0.7 | 3.3 |
| 7400.00 | -2.6 | -3.5 | -8.4 | -8.1 | 1.2 | 0.7 | 3.4 |
| 7500.00 | -2.7 | -3.6 | -7.9 | -7.6 | 1.2 | 0.6 | 3.5 |
| 7600.00 | -2.9 | -3.8 | -7.5 | -7.3 | 1.2 | 0.6 | 3.5 |
| 7700.00 | -3.1 | -3.9 | -7.0 | -6.9 | 1.2 | 0.6 | 3.5 |
| 7800.00 | -3.2 | -4.1 | -6.6 | -6.6 | 1.2 | 0.6 | 3.6 |
| 7900.00 | -3.4 | -4.3 | -6.2 | -6.2 | 1.2 | 0.6 | 4.0 |
| 8000.00 | -3.6 | -4.5 | -5.8 | -5.9 | 1.2 | 0.6 | 4.3 |
| 8100.00 | -3.9 | -4.7 | -5.4 | -5.5 | 1.2 | 0.6 | 3.2 |
| 8200.00 | -4.1 | -4.9 | -5.2 | -5.3 | 1.2 | 0.6 | 4.4 |
| 8300.00 | -4.3 | -5.1 | -4.8 | -4.9 | 1.2 | 0.6 | 3.9 |
| 8400.00 | -4.5 | -5.3 | -4.6 | -4.8 | 1.2 | 0.6 | 4.2 |
| 8500.00 | -4.7 | -5.5 | -4.2 | -4.5 | 1.2 | 0.6 | 4.0 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 13.7 | 10.8 |
| 6000.0 | 14.2 | 11.4 |
| 7000.0 | 15.8 | 12.3 |
| 8000.0 | 16.6 | 11.3 |
| 8500.0 | 15.4 | 10.1 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 71.3 | 71.2 | 71.1 | 70.4 | 68.3 | 63.1 | 56.4 | 34.0 | 33.7 | 32.9 | 32.5 | 30.2 | 26.5 | 20.1 |
| 6000.0 | 75.3 | 75.3 | 75.2 | 74.9 | 74.3 | 71.9 | 64.4 | 34.6 | 34.4 | 33.8 | 32.0 | 29.0 | 23.3 | 16.7 |
| 7000.0 | 86.0 | 85.7 | 85.4 | 84.9 | 83.5 | 79.7 | 67.4 | 35.0 | 34.8 | 34.3 | 31.3 | 28.7 | 24.6 | 19.3 |
| 8000.0 | 83.5 | 83.4 | 83.3 | 83.0 | 82.1 | 79.3 | 72.6 | 34.5 | 34.3 | 33.5 | 33.1 | 31.2 | 27.6 | 19.9 |
| 8500.0 | 93.9 | 93.9 | 93.9 | 93.8 | 92.0 | 93.3 | 112.8 | 34.3 | 33.3 | 31.7 | 29.1 | 24.0 | 16.1 | 15.5 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 97 mA, $I_{EN}$ = 2.59 mA @ Temperature = + 105°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.8 | -33.1 | -2.0 | -4.9 | 1.5 | 1.0 | 20.9 | 22.2 | 5.7 | 31.3 | 31.7 | 32.3 | 32.0 | 32.4 | 32.1 | 31.9 |
| 300.00 | 19.6 | -28.2 | -5.9 | -9.0 | 1.2 | 0.8 | 21.3 | 22.5 | 3.2 | 32.8 | 32.3 | 33.2 | 33.5 | 33.5 | 33.2 | 33.0 |
| 400.00 | 21.1 | -26.7 | -12.0 | -15.3 | 1.2 | 0.7 | 21.8 | 22.8 | 2.5 | 33.0 | 33.2 | 34.5 | 34.1 | 34.9 | 34.4 | 34.2 |
| 500.00 | 21.4 | -26.3 | -18.0 | -19.2 | 1.2 | 0.7 | 22.1 | 22.8 | 2.2 | 32.5 | 32.5 | 35.3 | 34.4 | 34.5 | 34.4 | 34.2 |
| 600.00 | 21.5 | -26.2 | -18.8 | -18.5 | 1.1 | 0.7 | 22.3 | 22.9 | 2.0 | 33.2 | 35.8 | 34.8 | 36.1 | 35.5 | 35.4 | 35.2 |
| 700.00 | 21.5 | -26.3 | -17.3 | -17.4 | 1.1 | 0.7 | 22.4 | 23.1 | 1.9 | 32.8 | 35.8 | 34.1 | 35.0 | 35.2 | 35.0 | 34.7 |
| 800.00 | 21.5 | -26.3 | -16.2 | -16.9 | 1.1 | 0.7 | 22.5 | 23.1 | 1.9 | 33.3 | 34.7 | 35.1 | 35.0 | 34.6 | 34.6 | 34.4 |
| 900.00 | 21.5 | -26.4 | -15.7 | -16.8 | 1.1 | 0.7 | 22.6 | 23.3 | 1.9 | 34.9 | 35.2 | 34.6 | 34.7 | 35.1 | 34.8 | 34.6 |
| 1000.00 | 21.5 | -26.4 | -15.5 | -17.0 | 1.1 | 0.7 | 22.6 | 23.3 | 1.9 | 36.2 | 35.6 | 36.2 | 35.3 | 35.4 | 35.2 | 35.1 |
| 1100.00 | 21.5 | -26.4 | -15.5 | -17.5 | 1.1 | 0.7 | 22.5 | 23.2 | 1.8 | 32.9 | 36.1 | 34.9 | 34.8 | 35.0 | 34.8 | 34.7 |
| 1200.00 | 21.5 | -26.4 | -15.6 | -18.2 | 1.2 | 0.7 | 22.6 | 23.4 | 1.9 | 33.3 | 34.7 | 35.2 | 34.8 | 34.7 | 34.5 | 34.3 |
| 1300.00 | 21.5 | -26.5 | -15.7 | -19.1 | 1.2 | 0.7 | 22.6 | 23.4 | 1.9 | 33.1 | 32.5 | 34.0 | 34.2 | 34.0 | 34.0 | 33.9 |
| 1400.00 | 21.5 | -26.5 | -16.0 | -20.2 | 1.2 | 0.7 | 22.6 | 23.3 | 1.9 | 33.0 | 34.0 | 34.4 | 34.5 | 34.5 | 34.6 | 34.4 |
| 1500.00 | 21.5 | -26.6 | -16.1 | -21.8 | 1.2 | 0.7 | 22.4 | 23.4 | 1.9 | 36.9 | 33.3 | 34.0 | 33.5 | 33.4 | 33.3 | 33.0 |
| 1600.00 | 21.5 | -26.6 | -16.1 | -23.6 | 1.2 | 0.7 | 22.5 | 23.5 | 1.9 | 32.9 | 34.4 | 34.8 | 33.8 | 33.9 | 33.8 | 33.6 |
| 1700.00 | 21.6 | -26.6 | -16.0 | -25.0 | 1.2 | 0.7 | 22.5 | 23.6 | 2.0 | 33.4 | 33.7 | 33.1 | 33.5 | 33.2 | 33.2 | 33.1 |
| 1800.00 | 21.6 | -26.7 | -15.9 | -26.8 | 1.2 | 0.7 | 22.4 | 23.5 | 2.0 | 33.0 | 33.0 | 32.8 | 33.3 | 33.1 | 33.2 | 33.0 |
| 1900.00 | 21.6 | -26.8 | -15.6 | -27.1 | 1.2 | 0.7 | 22.3 | 23.5 | 2.0 | 34.0 | 33.7 | 32.8 | 32.3 | 32.3 | 32.2 | 32.0 |
| 2000.00 | 21.6 | -26.8 | -15.2 | -25.6 | 1.2 | 0.7 | 22.1 | 23.4 | 2.0 | 31.8 | 34.4 | 31.8 | 33.0 | 32.9 | 32.8 | 32.6 |
| 2100.00 | 21.6 | -26.9 | -14.7 | -23.6 | 1.2 | 0.7 | 22.2 | 23.6 | 2.1 | 29.0 | 33.1 | 32.2 | 32.2 | 32.5 | 32.5 | 32.3 |
| 2200.00 | 21.6 | -27.0 | -14.1 | -21.8 | 1.2 | 0.7 | 22.2 | 23.5 | 2.1 | 32.4 | 31.7 | 32.4 | 33.1 | 32.9 | 32.9 | 32.8 |
| 2300.00 | 21.6 | -27.1 | -13.5 | -20.0 | 1.2 | 0.7 | 22.1 | 23.6 | 2.1 | 30.9 | 32.6 | 33.0 | 32.5 | 32.6 | 32.4 | 32.3 |
| 2400.00 | 21.6 | -27.2 | -12.9 | -18.5 | 1.2 | 0.8 | 21.7 | 23.5 | 2.1 | 31.6 | 31.6 | 31.5 | 31.5 | 31.4 | 31.3 | 31.0 |
| 2500.00 | 21.5 | -27.2 | -12.4 | -17.4 | 1.2 | 0.8 | 21.5 | 23.5 | 2.1 | 32.2 | 32.1 | 31.1 | 31.5 | 31.2 | 31.2 | 30.9 |
| 2600.00 | 21.5 | -27.4 | -11.9 | -16.4 | 1.2 | 0.8 | 21.3 | 23.3 | 2.2 | 32.1 | 30.9 | 31.5 | 31.2 | 31.0 | 31.0 | 30.7 |
| 2700.00 | 21.5 | -27.5 | -11.5 | -15.6 | 1.2 | 0.8 | 21.2 | 23.1 | 2.2 | 30.2 | 31.1 | 30.7 | 31.5 | 31.5 | 31.4 | 31.2 |
| 2800.00 | 21.4 | -27.6 | -11.0 | -14.9 | 1.2 | 0.8 | 21.1 | 23.0 | 2.2 | 31.4 | 31.8 | 31.0 | 31.1 | 31.1 | 31.0 | 30.8 |
| 2900.00 | 21.4 | -27.7 | -10.6 | -14.2 | 1.2 | 0.8 | 20.8 | 22.8 | 2.3 | 30.3 | | 29.9 | 30.3 | 30.1 | 30.0 | 29.7 |
| 3000.00 | 21.4 | -27.8 | -10.3 | -13.7 | 1.2 | 0.8 | 20.8 | 22.8 | 2.3 | 30.3 | 30.7 | 30.5 | 30.2 | 30.2 | 30.0 | 29.8 |
| 3100.00 | 21.4 | -27.8 | -9.9 | -13.3 | 1.2 | 0.8 | 20.5 | 22.8 | 2.3 | 29.5 | 30.5 | 29.6 | 29.8 | 29.6 | 29.4 | 29.2 |
| 3200.00 | 21.3 | -28.0 | -9.7 | -13.0 | 1.2 | 0.8 | 20.7 | 22.9 | 2.3 | 29.6 | 31.1 | 30.1 | 29.9 | 30.0 | 30.0 | 29.7 |
| 3300.00 | 21.3 | -27.9 | -9.5 | -12.8 | 1.2 | 0.8 | 20.5 | 22.7 | 2.3 | 31.6 | 29.8 | 29.9 | 30.0 | 30.0 | 29.8 | 29.5 |
| 3400.00 | 21.3 | -28.0 | -9.4 | -12.7 | 1.2 | 0.8 | 20.4 | 22.6 | 2.4 | 30.1 | 29.9 | 30.4 | 30.3 | 30.4 | 30.2 | 30.0 |
| 3500.00 | 21.4 | -28.1 | -9.3 | -12.7 | 1.2 | 0.8 | 20.5 | 22.6 | 2.3 | 28.6 | 30.0 | 29.7 | 29.6 | 29.5 | 29.5 | 29.3 |
| 3600.00 | 21.4 | -28.1 | -9.3 | -12.8 | 1.2 | 0.8 | 20.4 | 22.5 | 2.2 | 28.8 | 29.7 | 29.7 | 29.5 | 29.5 | 29.4 | 29.2 |
| 3700.00 | 21.4 | -28.2 | -9.3 | -12.9 | 1.2 | 0.8 | 20.9 | 22.8 | 2.3 | 30.1 | 30.2 | 30.0 | 30.6 | 30.4 | 30.5 | 30.4 |
| 3800.00 | 21.4 | -28.2 | -9.4 | -13.2 | 1.2 | 0.8 | 20.8 | 22.8 | 2.2 | 30.2 | 30.3 | 29.0 | 29.6 | 29.5 | 29.5 | 29.3 |
| 3900.00 | 21.5 | -28.2 | -9.5 | -13.4 | 1.2 | 0.8 | 20.8 | 22.8 | 2.3 | 28.7 | 29.8 | 29.6 | 29.8 | 29.7 | 29.8 | 29.6 |
| 4000.00 | 21.5 | -28.3 | -9.7 | -13.8 | 1.2 | 0.8 | 20.7 | 22.9 | 2.3 | 29.2 | 29.8 | 29.8 | 30.0 | 30.0 | 30.1 | 30.1 |
| 4100.00 | 21.6 | -28.2 | -10.0 | -14.4 | 1.2 | 0.8 | 20.7 | 22.9 | 2.3 | 29.4 | 29.5 | 29.5 | 29.6 | 29.7 | 29.8 | 29.6 |
| 4200.00 | 21.7 | -28.2 | -10.2 | -15.0 | 1.2 | 0.8 | 20.8 | 22.9 | 2.3 | 29.2 | 29.9 | 29.8 | 29.6 | 29.7 | 29.6 | 29.6 |
| 4300.00 | 21.7 | -28.3 | -10.5 | -15.4 | 1.3 | 0.8 | 20.6 | 22.8 | 2.3 | 30.2 | 29.2 | 29.9 | 30.0 | 29.8 | 29.9 | 29.8 |
| 4400.00 | 21.8 | -28.4 | -11.0 | -16.1 | 1.3 | 0.8 | 20.5 | 22.7 | 2.2 | 28.4 | 29.0 | 29.4 | 29.4 | 29.6 | 29.5 | 29.4 |
| 4500.00 | 21.9 | -28.4 | -11.3 | -16.9 | 1.3 | 0.8 | 20.3 | 22.6 | 2.3 | 28.6 | 29.3 | 29.3 | 29.4 | 29.4 | 29.4 | 29.3 |
| 4600.00 | 21.9 | -28.5 | -11.8 | -17.6 | 1.3 | 0.8 | 20.0 | 22.4 | 2.2 | 28.8 | 29.3 | 29.1 | 29.2 | 29.3 | 29.2 | 29.1 |
| 4700.00 | 21.9 | -28.5 | -12.3 | -18.5 | 1.3 | 0.8 | 20.1 | 22.5 | 2.3 | 28.7 | 28.5 | 28.8 | 28.9 | 28.9 | 28.9 | 28.8 |
| 4800.00 | 22.0 | -28.5 | -12.6 | -18.8 | 1.3 | 0.8 | 20.3 | 22.5 | 2.2 | 28.5 | 28.9 | 29.0 | 29.1 | 29.3 | 29.3 | 29.4 |
| 4900.00 | 22.0 | -28.5 | -13.4 | -19.6 | 1.3 | 0.8 | 20.1 | 22.3 | 2.3 | 28.2 | 28.2 | 28.5 | 28.8 | 28.7 | 28.7 | 28.6 |
| 5000.00 | 22.1 | -28.6 | -13.7 | -20.5 | 1.3 | 0.8 | 20.0 | 22.1 | 2.3 | 28.0 | 28.4 | 28.2 | 28.5 | 28.4 | 28.5 | 28.3 |
| 5100.00 | 22.2 | -28.7 | -13.9 | -20.6 | 1.3 | 0.8 | 20.3 | 22.3 | 2.3 | 28.3 | 28.8 | 28.3 | 28.2 | 28.4 | 28.4 | 28.3 |
| 5200.00 | 22.2 | -28.8 | -14.5 | -21.3 | 1.3 | 0.8 | 20.3 | 22.3 | 2.3 | 28.2 | 28.4 | 28.4 | 28.3 | 28.5 | 28.6 | 28.6 |
| 5300.00 | 22.3 | -28.9 | -14.2 | -20.9 | 1.3 | 0.8 | 19.9 | 22.0 | 2.3 | 27.8 | 28.5 | 28.1 | 28.3 | 28.3 | 28.4 | 28.3 |
| 5400.00 | 22.2 | -29.1 | -14.2 | -20.6 | 1.4 | 0.8 | 19.4 | 21.7 | 2.3 | 28.2 | 28.3 | 27.9 | 28.1 | 28.2 | 28.3 | 28.1 |
| 5500.00 | 22.2 | -29.1 | -14.1 | -21.2 | 1.3 | 0.8 | 19.1 | 21.5 | 2.3 | 26.7 | 28.1 | 27.3 | 27.4 | 27.5 | 27.4 | 27.2 |
| 5600.00 | 22.3 | -29.2 | -13.0 | -19.8 | 1.3 | 0.8 | 18.6 | 21.0 | 2.4 | 27.7 | 27.7 | 27.7 | 27.6 | 27.6 | 27.5 | 27.2 |
| 5700.00 | 22.1 | -29.5 | -12.6 | -19.1 | 1.4 | 0.9 | 18.5 | 20.7 | 2.4 | 26.9 | 27.7 | 26.6 | 26.6 | 26.6 | 26.5 | 26.2 |
| 5800.00 | 22.2 | -29.4 | -11.9 | -18.8 | 1.4 | 0.9 | 18.5 | 20.4 | 2.5 | 26.5 | 27.0 | 26.5 | 26.5 | 26.5 | 26.4 | 26.1 |
| 5900.00 | 22.1 | -29.8 | -10.6 | -17.0 | 1.4 | 0.9 | 18.6 | 20.3 | 2.6 | 27.0 | 26.8 | 26.8 | 26.8 | 26.8 | 26.7 | 26.4 |
| 6000.00 | 21.9 | -29.9 | -10.3 | -16.8 | 1.4 | 0.9 | 18.5 | 20.0 | 2.6 | 26.4 | 27.3 | 26.6 | 26.5 | 26.5 | 26.4 | 26.0 |
| 6100.00 | 22.0 | -29.9 | -9.2 | -15.6 | 1.4 | 0.9 | 18.6 | 19.9 | 2.6 | 27.0 | 26.8 | 26.8 | 26.8 | 26.8 | 26.7 | 26.5 |
| 6200.00 | 21.7 | -30.6 | -8.3 | -14.1 | 1.5 | 0.9 | 18.5 | 19.7 | 2.6 | 26.5 | 25.8 | 26.6 | 26.6 | 26.6 | 26.5 | 26.2 |
| 6300.00 | 21.6 | -30.7 | -7.9 | -13.8 | 1.5 | 1.0 | 18.5 | 19.6 | 2.6 | 26.1 | 26.0 | 25.9 | 26.0 | 26.0 | 25.9 | 25.6 |
| 6400.00 | 21.5 | -31.1 | -6.9 | -12.5 | 1.5 | 1.0 | 18.4 | 19.5 | 2.7 | 26.1 | 26.2 | 26.5 | 26.4 | 26.4 | 26.4 | 26.2 |
| 6500.00 | 21.2 | -31.8 | -6.4 | -11.7 | 1.6 | 1.0 | 18.3 | 19.4 | 2.6 | 26.3 | 25.4 | 26.1 | 26.1 | 26.1 | 26.0 | 25.7 |
| 6600.00 | 21.0 | -32.0 | -5.9 | -11.1 | 1.6 | 1.0 | 18.3 | 19.4 | 2.7 | 25.4 | 25.7 | 25.6 | 25.7 | 25.7 | 25.6 | 25.2 |
| 6700.00 | 20.7 | -32.7 | -5.1 | -10.1 | 1.6 | 1.1 | 18.0 | 19.1 | 2.8 | 25.8 | 25.3 | 25.9 | 25.9 | 25.8 | 25.7 | 25.3 |
| 6800.00 | 20.3 | -33.5 | -4.8 | -9.5 | 1.8 | 1.1 | 17.8 | 18.9 | 2.7 | 25.6 | 26.5 | 25.4 | 25.4 | 25.3 | 25.1 | 24.6 |
| 6900.00 | 20.0 | -34.0 | -4.4 | -9.0 | 1.8 | 1.1 | 17.6 | 18.6 | 2.8 | 25.2 | 24.8 | 25.1 | 25.1 | 25.1 | 24.8 | 24.3 |
| 7000.00 | 19.5 | -35.1 | -4.0 | -8.4 | 2.0 | 1.1 | 17.3 | 18.3 | 2.9 | 25.2 | 25.5 | 25.1 | 25.0 | 24.9 | 24.6 | 24.0 |
| 7100.00 | 18.9 | -36.0 | -3.9 | -8.0 | 2.2 | 1.1 | 17.0 | 17.9 | 2.9 | 25.5 | 25.3 | 25.3 | 25.1 | 24.9 | 24.6 | 24.0 |
| 7200.00 | 18.5 | -36.8 | -3.5 | -7.6 | 2.4 | 1.1 | 16.6 | 17.5 | 2.9 | 25.1 | 25.2 | 24.8 | 24.7 | 24.5 | 24.2 | 23.4 |
| 7300.00 | 17.8 | -38.5 | -3.4 | -7.2 | 2.9 | 1.1 | 16.2 | 17.1 | 3.0 | 24.4 | 25.2 | 24.2 | 24.0 | 23.8 | 23.3 | 22.5 |
| 7400.00 | 17.1 | -39.7 | -3.4 | -7.0 | 3.4 | 1.1 | 15.8 | 16.7 | 2.9 | 25.0 | 25.0 | 24.7 | 24.5 | 24.3 | 23.9 | 22.9 |
| 7500.00 | 16.4 | -41.0 | -3.3 | -6.8 | 4.1 | 1.1 | 15.3 | 16.1 | 3.0 | 23.7 | 24.4 | 23.5 | 23.4 | 23.0 | 22.3 | 21.2 |
| 7600.00 | 15.6 | -42.9 | -3.3 | -6.6 | 5.4 | 1.1 | 14.8 | 15.6 | 3.1 | 23.5 | 23.9 | 23.4 | 23.0 | 22.6 | 21.7 | 20.5 |
| 7700.00 | 14.9 | -44.0 | -3.4 | -6.4 | 6.7 | 1.1 | 14.2 | 14.9 | 3.2 | 23.0 | 23.4 | 22.5 | 22.2 | 21.6 | 20.7 | 19.2 |
| 7800.00 | 13.8 | -47.2 | -3.3 | -6.1 | 10.3 | 1.1 | 13.3 | 14.1 | 3.2 | 23.3 | 23.0 | 22.9 | 22.5 | 21.9 | 20.9 | 19.4 |
| 7900.00 | 12.5 | -46.3 | -3.7 | -5.9 | 11.2 | 1.1 | 12.2 | 13.0 | 3.4 | 21.2 | 21.4 | 20.7 | 20.0 | 18.8 | 17.1 | 12.1 |
| 8000.00 | 11.3 | -47.7 | -3.7 | -5.8 | 14.9 | 1.1 | 11.0 | 11.8 | 3.4 | 20.9 | 20.1 | 20.1 | 19.3 | 18.1 | 16.1 | 10.8 |

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 97 mA, $I_{EN}$ = 2.59 mA @ Temperature = + 105°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 45.9 | 45.8 | 45.8 | 45.7 | 45.6 | 45.4 | 45.1 |
| 1000.0 | 44.6 | 44.5 | 44.4 | 44.3 | 44.1 | 43.9 | 43.5 |
| 2000.0 | 42.4 | 42.2 | 42.1 | 41.9 | 41.8 | 41.6 | 41.4 |
| 4000.0 | 44.1 | 44.0 | 43.9 | 43.7 | 43.5 | 43.4 | 43.4 |
| 6000.0 | 34.3 | 34.2 | 34.0 | 33.8 | 33.5 | 33.3 | 33.2 |
| 8000.0 | 39.0 | 38.7 | 38.4 | 38.4 | 38.9 | 40.3 | 42.6 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = +6.0 V, $I_{DD}$ = 103 mA, $I_{EN}$ = 2.58 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.3 | -29.8 | -8.5 | -8.6 | 1.4 | 0.8 | 18.8 | 21.2 | 2.2 | 27.8 | 27.9 | 28.2 | 28.4 | 28.4 | 28.5 | 28.3 |
| 5600.00 | 21.5 | -29.8 | -8.3 | -8.6 | 1.4 | 0.8 | 18.4 | 20.9 | 2.1 | 26.6 | 27.3 | 26.9 | 27.1 | 27.1 | 27.1 | 26.8 |
| 5700.00 | 21.4 | -29.9 | -8.6 | -8.8 | 1.4 | 0.8 | 18.3 | 20.6 | 2.1 | 27.2 | 27.0 | 27.0 | 27.2 | 27.3 | 27.3 | 27.1 |
| 5800.00 | 21.6 | -29.9 | -8.3 | -8.8 | 1.4 | 0.8 | 18.3 | 20.5 | 2.1 | 27.5 | 27.1 | 27.2 | 27.2 | 27.2 | 27.3 | 27.1 |
| 5900.00 | 21.6 | -29.9 | -8.5 | -9.0 | 1.4 | 0.8 | 18.2 | 20.2 | 2.1 | 26.8 | 26.6 | 26.7 | 26.9 | 27.0 | 27.0 | 26.8 |
| 6000.00 | 21.7 | -30.0 | -8.2 | -8.9 | 1.4 | 0.8 | 18.2 | 19.9 | 2.1 | 25.7 | 26.0 | 25.8 | 25.9 | 25.9 | 25.8 | 25.5 |
| 6100.00 | 21.7 | -30.1 | -8.4 | -9.2 | 1.4 | 0.8 | 18.6 | 20.1 | 2.1 | 26.8 | 25.9 | 26.4 | 26.6 | 26.8 | 26.8 | 26.7 |
| 6200.00 | 21.8 | -30.3 | -8.1 | -9.1 | 1.4 | 0.8 | 18.8 | 20.1 | 2.1 | 25.9 | 25.8 | 26.1 | 26.2 | 26.4 | 26.5 | 26.3 |
| 6300.00 | 21.8 | -30.3 | -8.3 | -9.3 | 1.4 | 0.8 | 19.1 | 20.3 | 2.2 | 26.8 | 26.5 | 26.8 | 27.0 | 27.2 | 27.4 | 27.5 |
| 6400.00 | 21.9 | -30.5 | -8.0 | -9.2 | 1.4 | 0.8 | 19.2 | 20.4 | 2.1 | 26.2 | 27.3 | 26.6 | 26.9 | 27.1 | 27.3 | 27.4 |
| 6500.00 | 21.8 | -30.6 | -8.2 | -9.6 | 1.4 | 0.8 | 19.2 | 20.4 | 2.2 | 26.3 | 26.4 | 26.9 | 27.0 | 27.2 | 27.5 | 27.6 |
| 6600.00 | 21.9 | -30.9 | -7.9 | -9.5 | 1.5 | 0.8 | 19.4 | 20.5 | 2.2 | 26.9 | 26.6 | 26.9 | 27.0 | 27.2 | 27.5 | 27.6 |
| 6700.00 | 21.9 | -31.1 | -8.2 | -9.9 | 1.5 | 0.9 | 19.4 | 20.5 | 2.2 | 26.3 | 26.4 | 26.6 | 26.9 | 27.1 | 27.4 | 27.5 |
| 6800.00 | 21.9 | -31.4 | -7.9 | -9.9 | 1.5 | 0.9 | 19.5 | 20.5 | 2.2 | 26.8 | 26.3 | 26.8 | 27.2 | 27.4 | 27.7 | 27.9 |
| 6900.00 | 21.8 | -31.4 | -8.1 | -10.3 | 1.6 | 0.9 | 19.5 | 20.6 | 2.2 | 26.9 | 26.5 | 26.8 | 27.1 | 27.4 | 27.8 | 28.1 |
| 7000.00 | 21.8 | -31.8 | -7.9 | -10.3 | 1.6 | 0.9 | 19.5 | 20.5 | 2.3 | 26.3 | 25.9 | 26.6 | 26.7 | 27.1 | 27.4 | 27.7 |
| 7100.00 | 21.7 | -31.9 | -8.1 | -10.9 | 1.7 | 0.9 | 19.4 | 20.4 | 2.3 | 26.6 | 26.8 | 26.8 | 27.0 | 27.4 | 27.7 | 28.0 |
| 7200.00 | 21.7 | -32.5 | -7.9 | -11.0 | 1.7 | 0.9 | 19.4 | 20.4 | 2.3 | 26.5 | 26.5 | 26.8 | 27.0 | 27.3 | 27.7 | 28.0 |
| 7300.00 | 21.5 | -32.8 | -8.1 | -11.6 | 1.8 | 1.0 | 19.3 | 20.3 | 2.4 | 25.8 | 25.9 | 26.3 | 26.6 | 26.9 | 27.3 | 27.6 |
| 7400.00 | 21.4 | -33.4 | -7.8 | -11.9 | 1.9 | 1.0 | 19.3 | 20.3 | 2.5 | 25.7 | 26.0 | 26.4 | 26.5 | 26.9 | 27.4 | 27.7 |
| 7500.00 | 21.2 | -33.6 | -8.0 | -12.8 | 2.1 | 1.0 | 19.1 | 20.0 | 2.5 | 25.7 | 25.9 | 26.2 | 26.7 | 27.0 | 27.5 | 27.8 |
| 7600.00 | 20.9 | -34.6 | -7.6 | -13.0 | 2.3 | 1.0 | 18.9 | 19.8 | 2.6 | 26.5 | 26.4 | 26.6 | 26.9 | 27.1 | 27.5 | 27.8 |
| 7700.00 | 20.6 | -34.9 | -7.6 | -14.2 | 2.4 | 1.1 | 18.7 | 19.6 | 2.7 | 25.7 | 25.2 | 25.5 | 25.8 | 26.1 | 26.4 | 26.5 |
| 7800.00 | 20.2 | -36.1 | -7.0 | -14.4 | 2.8 | 1.1 | 18.6 | 19.5 | 2.8 | 26.1 | 26.0 | 26.1 | 26.4 | 26.9 | 27.3 | 27.5 |
| 7900.00 | 19.7 | -36.5 | -7.0 | -15.6 | 3.1 | 1.1 | 18.4 | 19.2 | 2.9 | 25.8 | 25.7 | 26.1 | 26.5 | 26.9 | 27.3 | 27.6 |
| 8000.00 | 19.1 | -37.9 | -6.2 | -15.1 | 3.6 | 1.2 | 18.1 | 18.9 | 3.1 | 25.2 | 25.1 | 25.5 | 26.0 | 26.4 | 26.8 | 26.8 |
| 8100.00 | 18.4 | -38.3 | -6.0 | -15.4 | 4.0 | 1.2 | 17.8 | 18.5 | 3.2 | 25.4 | 25.8 | 25.7 | 26.0 | 26.5 | 26.9 | 26.7 |
| 8200.00 | 17.5 | -40.1 | -5.2 | -13.9 | 5.0 | 1.3 | 17.4 | 18.1 | 3.4 | 24.8 | | 25.2 | 25.7 | 26.0 | 26.3 | 25.3 |
| 8300.00 | 16.7 | -40.2 | -4.9 | -13.2 | 5.2 | 1.3 | 17.0 | 17.7 | 3.6 | 25.2 | 25.2 | 25.6 | 25.8 | 26.4 | 26.6 | 25.6 |
| 8400.00 | 15.4 | -42.0 | -4.2 | -11.3 | 6.6 | 1.3 | 16.5 | 17.1 | 3.8 | 25.7 | 25.5 | 26.0 | 26.4 | 26.9 | 27.0 | 25.8 |
| 8500.00 | 14.5 | -42.6 | -3.8 | -10.3 | 7.3 | 1.3 | 15.9 | 16.5 | 4.0 | 24.3 | 24.5 | 25.4 | 25.5 | 25.8 | 24.8 | 22.5 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 37.4 | 37.4 | 37.3 | 37.1 | 36.9 | 36.8 | 36.6 |
| 6000.0 | 35.3 | 35.2 | 35.1 | 34.8 | 34.6 | 34.4 | 34.2 |
| 7000.0 | 45.0 | 44.9 | 44.7 | 44.5 | 44.3 | 44.2 | 44.2 |
| 8000.0 | 53.0 | 52.9 | 52.7 | 52.5 | 52.3 | 52.1 | 52.2 |
| 8500.0 | 60.7 | 60.5 | 60.3 | 60.0 | 59.9 | 59.9 | 60.3 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.2 | 1.1 | 0.9 | 4.0 |
| 300.00 | -2.4 | -2.5 | -6.7 | -12.0 | 1.0 | 0.7 | 2.8 |
| 400.00 | -1.8 | -1.9 | -9.3 | -14.1 | 1.0 | 0.6 | 2.1 |
| 500.00 | -1.5 | -1.5 | -12.0 | -15.7 | 1.0 | 0.5 | 1.7 |
| 600.00 | -1.3 | -1.4 | -14.9 | -16.9 | 1.0 | 0.5 | 1.7 |
| 700.00 | -1.3 | -1.3 | -18.1 | -17.7 | 1.0 | 0.5 | 1.5 |
| 800.00 | -1.2 | -1.3 | -22.1 | -17.8 | 1.0 | 0.4 | 1.7 |
| 900.00 | -1.2 | -1.3 | -26.9 | -17.6 | 1.0 | 0.4 | 1.5 |
| 1000.00 | -1.2 | -1.3 | -30.1 | -17.2 | 1.0 | 0.4 | 1.3 |
| 1100.00 | -1.2 | -1.3 | -26.4 | -16.9 | 1.0 | 0.4 | 1.4 |
| 1200.00 | -1.2 | -1.3 | -22.9 | -16.6 | 1.0 | 0.4 | 1.5 |
| 1300.00 | -1.2 | -1.3 | -20.5 | -16.2 | 1.0 | 0.4 | 1.4 |
| 1400.00 | -1.2 | -1.4 | -18.7 | -15.8 | 1.0 | 0.4 | 1.5 |
| 1500.00 | -1.3 | -1.4 | -17.3 | -15.5 | 1.0 | 0.5 | 1.7 |
| 1600.00 | -1.3 | -1.5 | -16.2 | -15.4 | 1.0 | 0.5 | 1.5 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.3 | 1.0 | 0.5 | 1.6 |
| 1800.00 | -1.4 | -1.6 | -14.7 | -15.2 | 1.0 | 0.5 | 1.7 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 1.5 |
| 2000.00 | -1.5 | -1.7 | -13.7 | -14.9 | 1.0 | 0.5 | 1.6 |
| 2100.00 | -1.5 | -1.7 | -13.5 | -15.1 | 1.0 | 0.5 | 2.0 |
| 2200.00 | -1.5 | -1.7 | -13.2 | -15.4 | 1.0 | 0.5 | 2.1 |
| 2300.00 | -1.5 | -1.8 | -13.1 | -15.6 | 1.0 | 0.6 | 2.1 |
| 2400.00 | -1.6 | -1.8 | -13.0 | -15.8 | 1.0 | 0.6 | 2.1 |
| 2500.00 | -1.6 | -1.9 | -12.9 | -16.2 | 1.1 | 0.6 | 2.2 |
| 2600.00 | -1.6 | -1.9 | -13.0 | -16.8 | 1.1 | 0.6 | 2.2 |
| 2700.00 | -1.6 | -2.0 | -13.1 | -17.5 | 1.1 | 0.6 | 2.2 |
| 2800.00 | -1.6 | -2.0 | -13.2 | -18.2 | 1.1 | 0.6 | 2.3 |
| 2900.00 | -1.7 | -2.1 | -13.4 | -18.9 | 1.1 | 0.6 | 2.3 |
| 3000.00 | -1.7 | -2.1 | -13.5 | -20.0 | 1.1 | 0.7 | 2.2 |
| 3100.00 | -1.7 | -2.1 | -13.6 | -21.4 | 1.1 | 0.7 | 2.4 |
| 3200.00 | -1.7 | -2.1 | -13.7 | -23.1 | 1.1 | 0.7 | 2.4 |
| 3300.00 | -1.7 | -2.1 | -13.8 | -24.5 | 1.1 | 0.7 | 2.4 |
| 3400.00 | -1.7 | -2.1 | -13.8 | -26.1 | 1.1 | 0.7 | 2.5 |
| 3500.00 | -1.7 | -2.1 | -13.8 | -26.9 | 1.1 | 0.7 | 2.5 |
| 3600.00 | -1.7 | -2.1 | -13.7 | -25.5 | 1.1 | 0.7 | 2.3 |
| 3700.00 | -1.8 | -2.1 | -13.6 | -23.4 | 1.1 | 0.7 | 2.6 |
| 3800.00 | -1.8 | -2.1 | -13.4 | -21.6 | 1.1 | 0.7 | 2.3 |
| 3900.00 | -1.8 | -2.1 | -13.2 | -20.0 | 1.1 | 0.7 | 2.8 |
| 4000.00 | -1.8 | -2.2 | -13.0 | -18.5 | 1.1 | 0.7 | 2.4 |
| 4100.00 | -1.8 | -2.2 | -12.7 | -17.2 | 1.1 | 0.7 | 2.3 |
| 4200.00 | -1.9 | -2.2 | -12.4 | -16.1 | 1.1 | 0.7 | 2.3 |
| 4300.00 | -1.9 | -2.2 | -12.2 | -15.3 | 1.1 | 0.6 | 2.2 |
| 4400.00 | -1.9 | -2.3 | -11.9 | -14.6 | 1.1 | 0.6 | 2.0 |
| 4500.00 | -1.9 | -2.3 | -11.7 | -14.0 | 1.1 | 0.6 | 2.3 |
| 4600.00 | -1.9 | -2.3 | -11.5 | -13.4 | 1.1 | 0.6 | 2.8 |
| 4700.00 | -1.9 | -2.4 | -11.4 | -13.0 | 1.1 | 0.6 | 2.4 |
| 4800.00 | -2.0 | -2.4 | -11.2 | -12.7 | 1.1 | 0.6 | 2.2 |
| 4900.00 | -2.0 | -2.4 | -11.2 | -12.4 | 1.1 | 0.6 | 1.9 |
| 5000.00 | -2.0 | -2.4 | -11.0 | -12.1 | 1.1 | 0.6 | 2.1 |
| 5100.00 | -2.0 | -2.5 | -11.0 | -11.9 | 1.1 | 0.6 | 2.5 |
| 5200.00 | -2.0 | -2.5 | -10.9 | -11.8 | 1.1 | 0.6 | 2.2 |
| 5300.00 | -1.9 | -2.5 | -11.0 | -11.7 | 1.1 | 0.6 | 1.9 |
| 5400.00 | -2.0 | -2.5 | -11.1 | -11.6 | 1.1 | 0.6 | 1.7 |
| 5500.00 | -1.9 | -2.5 | -11.1 | -11.5 | 1.1 | 0.6 | 2.1 |
| 5600.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 2.4 |
| 5700.00 | -1.9 | -2.5 | -11.4 | -11.6 | 1.1 | 0.6 | 2.2 |
| 5800.00 | -1.9 | -2.5 | -11.5 | -11.6 | 1.1 | 0.6 | 2.0 |
| 5900.00 | -1.9 | -2.5 | -11.9 | -11.9 | 1.1 | 0.6 | 1.7 |
| 6000.00 | -1.8 | -2.5 | -12.0 | -11.8 | 1.1 | 0.6 | 2.1 |
| 6100.00 | -1.8 | -2.4 | -12.4 | -12.0 | 1.1 | 0.6 | 2.2 |
| 6200.00 | -1.8 | -2.4 | -12.8 | -12.3 | 1.1 | 0.6 | 2.3 |
| 6300.00 | -1.7 | -2.4 | -13.0 | -12.3 | 1.1 | 0.6 | 2.1 |
| 6400.00 | -1.7 | -2.4 | -13.4 | -12.6 | 1.1 | 0.6 | 2.8 |
| 6500.00 | -1.7 | -2.4 | -13.7 | -12.7 | 1.1 | 0.6 | 2.4 |
| 6600.00 | -1.7 | -2.4 | -14.0 | -12.8 | 1.1 | 0.6 | 2.5 |
| 6700.00 | -1.6 | -2.4 | -14.5 | -13.2 | 1.1 | 0.6 | 2.3 |
| 6800.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 2.5 |
| 6900.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 2.5 |
| 7000.00 | -1.7 | -2.4 | -15.1 | -13.5 | 1.1 | 0.6 | 2.3 |
| 7100.00 | -1.7 | -2.5 | -15.0 | -13.5 | 1.1 | 0.6 | 2.6 |
| 7200.00 | -1.7 | -2.5 | -14.9 | -13.5 | 1.1 | 0.6 | 2.7 |
| 7300.00 | -1.8 | -2.5 | -14.7 | -13.4 | 1.1 | 0.6 | 2.7 |
| 7400.00 | -1.9 | -2.6 | -14.1 | -13.0 | 1.1 | 0.6 | 2.9 |
| 7500.00 | -1.9 | -2.6 | -13.6 | -12.8 | 1.1 | 0.6 | 3.0 |
| 7600.00 | -2.0 | -2.8 | -13.2 | -12.4 | 1.2 | 0.7 | 2.8 |
| 7700.00 | -2.1 | -2.8 | -12.3 | -11.8 | 1.2 | 0.7 | 3.2 |
| 7800.00 | -2.2 | -2.9 | -11.8 | -11.4 | 1.2 | 0.7 | 2.2 |
| 7900.00 | -2.4 | -3.1 | -11.1 | -10.7 | 1.2 | 0.7 | 3.1 |
| 8000.00 | -2.5 | -3.2 | -10.2 | -10.0 | 1.2 | 0.7 | 3.6 |

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 27.5 | 26.4 | 24.6 | 21.5 | 16.4 | 14.2 | 13.0 |
| 1000.0 | 29.6 | 28.6 | 26.7 | 23.4 | 17.3 | 13.9 | 14.5 |
| 2000.0 | 31.1 | 30.5 | 29.2 | 27.0 | 22.9 | 16.8 | 16.0 |
| 4000.0 | 31.6 | 31.1 | 30.5 | 29.2 | 26.7 | 22.3 | 18.2 |
| 6000.0 | 33.1 | 32.4 | 31.3 | 29.7 | 26.5 | 20.3 | 16.4 |
| 8000.0 | 33.1 | 32.7 | 31.8 | 30.1 | 26.9 | 19.6 | 16.2 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.0 | 68.9 | 66.9 | 62.7 | 52.4 | 45.0 | 44.2 |
| 1000.0 | 71.5 | 71.2 | 70.1 | 66.0 | 53.8 | 58.3 | 49.8 |
| 2000.0 | 70.1 | 69.8 | 69.0 | 67.5 | 63.2 | 55.2 | 47.1 |
| 4000.0 | 73.8 | 74.0 | 74.1 | 74.4 | 75.2 | 73.0 | 51.1 |
| 6000.0 | 72.4 | 72.2 | 72.1 | 71.6 | 69.9 | 61.8 | 55.2 |
| 8000.0 | 83.2 | 82.9 | 82.8 | 82.2 | 80.6 | 74.6 | 65.0 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 11.0 | 8.2 |
| 1000.0 | 10.8 | 8.7 |
| 2000.0 | 12.5 | 10.1 |
| 4000.0 | 14.5 | 11.9 |
| 6000.0 | 14.7 | 11.9 |
| 8000.0 | 14.9 | 11.4 |

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.0 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.8 | -2.5 | -20.0 | -17.3 | 1.1 | 0.7 | 3.1 |
| 5600.00 | -1.7 | -2.4 | -20.4 | -17.1 | 1.1 | 0.7 | 2.9 |
| 5700.00 | -1.7 | -2.5 | -20.3 | -16.8 | 1.1 | 0.7 | 2.7 |
| 5800.00 | -1.7 | -2.5 | -19.8 | -16.2 | 1.1 | 0.7 | 2.8 |
| 5900.00 | -1.7 | -2.5 | -18.9 | -15.7 | 1.1 | 0.7 | 2.9 |
| 6000.00 | -1.7 | -2.5 | -18.2 | -15.1 | 1.1 | 0.7 | 3.1 |
| 6100.00 | -1.7 | -2.6 | -17.1 | -14.4 | 1.1 | 0.7 | 3.0 |
| 6200.00 | -1.7 | -2.6 | -16.2 | -13.8 | 1.1 | 0.7 | 3.2 |
| 6300.00 | -1.8 | -2.6 | -15.2 | -13.2 | 1.1 | 0.7 | 3.0 |
| 6400.00 | -1.8 | -2.7 | -14.5 | -12.6 | 1.1 | 0.7 | 3.0 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.1 | 1.1 | 0.7 | 3.1 |
| 6600.00 | -1.9 | -2.8 | -13.0 | -11.6 | 1.1 | 0.7 | 3.0 |
| 6700.00 | -1.9 | -2.8 | -12.3 | -11.0 | 1.1 | 0.7 | 3.2 |
| 6800.00 | -2.0 | -2.9 | -11.7 | -10.6 | 1.1 | 0.7 | 3.2 |
| 6900.00 | -2.1 | -3.0 | -11.0 | -10.1 | 1.1 | 0.7 | 3.2 |
| 7000.00 | -2.1 | -3.1 | -10.5 | -9.7 | 1.1 | 0.7 | 3.1 |
| 7100.00 | -2.2 | -3.2 | -9.9 | -9.3 | 1.1 | 0.7 | 2.9 |
| 7200.00 | -2.3 | -3.2 | -9.4 | -8.9 | 1.1 | 0.7 | 3.3 |
| 7300.00 | -2.5 | -3.4 | -8.8 | -8.4 | 1.2 | 0.7 | 3.4 |
| 7400.00 | -2.6 | -3.5 | -8.4 | -8.1 | 1.2 | 0.7 | 3.3 |
| 7500.00 | -2.7 | -3.6 | -7.9 | -7.6 | 1.2 | 0.7 | 3.6 |
| 7600.00 | -2.9 | -3.8 | -7.5 | -7.3 | 1.2 | 0.6 | 3.5 |
| 7700.00 | -3.1 | -3.9 | -7.0 | -6.9 | 1.2 | 0.6 | 3.8 |
| 7800.00 | -3.2 | -4.1 | -6.6 | -6.6 | 1.2 | 0.6 | 3.4 |
| 7900.00 | -3.4 | -4.3 | -6.2 | -6.2 | 1.2 | 0.6 | 3.9 |
| 8000.00 | -3.6 | -4.5 | -5.8 | -5.9 | 1.2 | 0.6 | 4.2 |
| 8100.00 | -3.9 | -4.7 | -5.4 | -5.5 | 1.2 | 0.6 | 4.5 |
| 8200.00 | -4.1 | -4.9 | -5.2 | -5.3 | 1.2 | 0.6 | 4.2 |
| 8300.00 | -4.3 | -5.1 | -4.8 | -4.9 | 1.2 | 0.6 | 3.8 |
| 8400.00 | -4.5 | -5.3 | -4.6 | -4.8 | 1.2 | 0.6 | 3.8 |
| 8500.00 | -4.7 | -5.5 | -4.2 | -4.4 | 1.2 | 0.6 | 4.1 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 13.5 | 10.6 |
| 6000.0 | 14.0 | 11.2 |
| 7000.0 | 15.6 | 12.1 |
| 8000.0 | 16.4 | 11.1 |
| 8500.0 | 15.4 | 9.9 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 71.6 | 71.5 | 71.3 | 70.6 | 68.3 | 62.8 | 55.6 | 33.5 | 33.1 | 32.4 | 31.9 | 29.7 | 25.8 | 19.4 |
| 6000.0 | 75.1 | 75.2 | 75.1 | 74.8 | 74.2 | 71.5 | 63.6 | 34.5 | 34.1 | 33.3 | 31.4 | 28.5 | 22.5 | 16.5 |
| 7000.0 | 85.9 | 85.7 | 85.3 | 84.7 | 83.3 | 79.0 | 66.5 | 34.4 | 34.3 | 33.7 | 30.8 | 28.2 | 24.0 | 18.9 |
| 8000.0 | 83.5 | 83.4 | 83.2 | 82.9 | 82.0 | 78.9 | 72.4 | 34.3 | 33.9 | 33.0 | 32.7 | 30.6 | 26.9 | 19.2 |
| 8500.0 | 93.9 | 94.1 | 94.1 | 93.8 | 91.7 | 96.0 | 107.1 | 33.5 | 32.6 | 31.2 | 28.5 | 23.4 | 15.7 | 15.4 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 103 mA, $I_{EN}$ = 2.71 mA @ Temperature = + 105°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 200.00 | 14.8 | -33.0 | -2.0 | -4.9 | 1.5 | 1.0 | 21.2 | 22.5 | 5.8 | 31.7 | 32.1 | 33.6 | 32.3 | 32.5 | 32.3 | 32.0 |
| 300.00 | 19.6 | -28.2 | -5.9 | -9.0 | 1.2 | 0.8 | 21.7 | 22.8 | 2.9 | 34.6 | 32.6 | 33.0 | 33.3 | 33.9 | 33.5 | 33.3 |
| 400.00 | 21.1 | -26.7 | -12.1 | -15.3 | 1.2 | 0.7 | 22.2 | 23.1 | 2.1 | 33.5 | 32.9 | 34.2 | 34.1 | 35.1 | 34.9 | 34.4 |
| 500.00 | 21.5 | -26.4 | -18.0 | -19.1 | 1.2 | 0.7 | 22.5 | 23.2 | 1.9 | 30.3 | 33.3 | 35.9 | 34.8 | 34.9 | 34.7 | 34.4 |
| 600.00 | 21.5 | -26.3 | -18.5 | -18.3 | 1.1 | 0.7 | 22.7 | 23.3 | 1.8 | 32.4 | 35.1 | 35.2 | 35.1 | 35.5 | 35.6 | 35.3 |
| 700.00 | 21.5 | -26.3 | -17.0 | -17.2 | 1.1 | 0.7 | 22.8 | 23.4 | 1.7 | 35.2 | 33.4 | 35.1 | 34.7 | 35.2 | 35.2 | 35.0 |
| 800.00 | 21.5 | -26.4 | -16.0 | -16.7 | 1.1 | 0.7 | 22.9 | 23.5 | 1.7 | 34.6 | 34.8 | 34.4 | 36.1 | 34.8 | 34.9 | 34.6 |
| 900.00 | 21.5 | -26.4 | -15.5 | -16.6 | 1.1 | 0.7 | 23.0 | 23.6 | 1.7 | 35.2 | 34.6 | 34.9 | 34.8 | 35.3 | 35.0 | 34.9 |
| 1000.00 | 21.6 | -26.4 | -15.2 | -16.8 | 1.1 | 0.7 | 23.0 | 23.6 | 1.7 | 36.2 | 34.3 | 35.3 | 35.4 | 35.5 | 35.6 | 35.4 |
| 1100.00 | 21.6 | -26.5 | -15.3 | -17.2 | 1.2 | 0.7 | 22.9 | 23.6 | 1.7 | 33.3 | 34.8 | 34.3 | 34.2 | 35.2 | 35.3 | 35.0 |
| 1200.00 | 21.6 | -26.6 | -15.4 | -17.9 | 1.2 | 0.7 | 23.0 | 23.7 | 1.7 | 33.0 | 34.4 | 34.3 | 35.0 | 34.9 | 34.8 | 34.7 |
| 1300.00 | 21.6 | -26.5 | -15.6 | -18.8 | 1.2 | 0.7 | 23.0 | 23.8 | 1.8 | 34.2 | 34.3 | 34.3 | 34.0 | 34.5 | 34.4 | 34.2 |
| 1400.00 | 21.6 | -26.6 | -15.9 | -19.8 | 1.2 | 0.7 | 22.9 | 23.7 | 1.8 | 32.9 | 33.6 | 34.9 | 34.4 | 34.7 | 35.0 | 34.8 |
| 1500.00 | 21.6 | -26.6 | -16.1 | -21.3 | 1.2 | 0.7 | 22.8 | 23.7 | 1.9 | 32.5 | 33.0 | 33.7 | 33.6 | 33.8 | 33.6 | 33.4 |
| 1600.00 | 21.6 | -26.7 | -16.1 | -23.1 | 1.2 | 0.7 | 22.8 | 23.8 | 2.0 | 32.8 | 33.6 | 34.2 | 33.7 | 34.3 | 34.2 | 34.0 |
| 1700.00 | 21.6 | -26.8 | -16.1 | -24.3 | 1.2 | 0.7 | 22.8 | 23.9 | 1.9 | 32.1 | 33.1 | 33.3 | 33.3 | 33.6 | 33.6 | 33.5 |
| 1800.00 | 21.7 | -26.8 | -16.1 | -26.2 | 1.2 | 0.7 | 22.8 | 23.9 | 2.0 | 33.2 | 32.9 | 33.4 | 33.9 | 33.5 | 33.6 | 33.4 |
| 1900.00 | 21.7 | -26.8 | -15.8 | -26.7 | 1.2 | 0.7 | 22.7 | 23.8 | 2.1 | 32.1 | 33.3 | 32.7 | 33.4 | 32.6 | 32.7 | 32.4 |
| 2000.00 | 21.7 | -26.9 | -15.5 | -25.6 | 1.2 | 0.7 | 22.4 | 23.7 | 2.1 | 34.3 | 32.6 | 33.4 | 33.3 | 33.4 | 33.2 | 33.0 |
| 2100.00 | 21.7 | -27.0 | -14.9 | -23.9 | 1.2 | 0.7 | 22.6 | 23.9 | 2.0 | 31.9 | 32.8 | 32.8 | 33.5 | 32.9 | 32.9 | 32.7 |
| 2200.00 | 21.7 | -27.1 | -14.4 | -22.1 | 1.2 | 0.7 | 22.5 | 23.8 | 2.0 | 32.0 | 32.9 | 33.0 | 33.6 | 33.6 | 33.4 | 33.2 |
| 2300.00 | 21.7 | -27.1 | -13.8 | -20.3 | 1.2 | 0.7 | 22.5 | 23.9 | 2.1 | 31.6 | 32.0 | 32.8 | 33.2 | 32.9 | 32.9 | 32.8 |
| 2400.00 | 21.6 | -27.2 | -13.2 | -18.8 | 1.2 | 0.8 | 22.0 | 23.8 | 2.1 | 31.2 | 32.4 | 31.8 | 32.7 | 31.8 | 31.7 | 31.5 |
| 2500.00 | 21.6 | -27.3 | -12.6 | -17.6 | 1.2 | 0.8 | 21.9 | 23.7 | 2.1 | 30.6 | 32.4 | 32.2 | 32.0 | 31.9 | 31.6 | 31.4 |
| 2600.00 | 21.6 | -27.4 | -12.1 | -16.6 | 1.2 | 0.8 | 21.6 | 23.6 | 2.1 | 30.5 | 30.4 | 31.9 | 32.0 | 31.7 | 31.5 | 31.2 |
| 2700.00 | 21.6 | -27.5 | -11.7 | -15.8 | 1.2 | 0.8 | 21.5 | 23.3 | 2.2 | 30.9 | 31.1 | 31.9 | 31.5 | 31.9 | 31.9 | 31.7 |
| 2800.00 | 21.5 | -27.6 | -11.2 | -15.0 | 1.2 | 0.8 | 21.4 | 23.2 | 2.2 | 30.8 | 31.8 | 31.3 | 31.4 | 31.6 | 31.5 | 31.3 |
| 2900.00 | 21.5 | -27.8 | -10.8 | -14.4 | 1.2 | 0.8 | 21.1 | 23.0 | 2.2 | 30.1 | | 30.1 | 30.8 | 30.5 | 30.5 | 30.2 |
| 3000.00 | 21.4 | -27.8 | -10.4 | -13.8 | 1.2 | 0.8 | 21.0 | 23.0 | 2.2 | 31.3 | 31.0 | 30.8 | 30.5 | 30.6 | 30.5 | 30.2 |
| 3100.00 | 21.4 | -27.8 | -10.1 | -13.4 | 1.2 | 0.8 | 20.7 | 22.8 | 2.2 | 30.6 | 30.8 | 30.4 | 30.4 | 30.1 | 30.0 | 29.8 |
| 3200.00 | 21.4 | -27.9 | -9.8 | -13.1 | 1.2 | 0.8 | 21.0 | 23.0 | 2.2 | 30.1 | 30.5 | 30.3 | 30.9 | 30.5 | 30.4 | 30.2 |
| 3300.00 | 21.4 | -28.0 | -9.6 | -13.0 | 1.2 | 0.8 | 20.8 | 22.9 | 2.2 | 29.9 | 30.7 | 30.0 | 30.7 | 30.3 | 30.3 | 30.0 |
| 3400.00 | 21.4 | -28.1 | -9.5 | -12.8 | 1.2 | 0.8 | 20.7 | 22.7 | 2.3 | 29.7 | 29.9 | 30.6 | 30.6 | 30.6 | 30.7 | 30.5 |
| 3500.00 | 21.4 | -28.1 | -9.4 | -12.8 | 1.2 | 0.8 | 20.7 | 22.7 | 2.3 | 29.5 | 30.3 | 30.1 | 30.7 | 30.1 | 30.0 | 29.8 |
| 3600.00 | 21.5 | -28.1 | -9.4 | -12.9 | 1.2 | 0.8 | 20.7 | 22.6 | 2.2 | 29.3 | 30.0 | 29.7 | 29.9 | 29.9 | 29.9 | 29.7 |
| 3700.00 | 21.5 | -28.2 | -9.4 | -13.1 | 1.2 | 0.8 | 21.1 | 22.9 | 2.2 | 30.5 | 30.3 | 30.6 | 30.9 | 30.9 | 30.9 | 30.9 |
| 3800.00 | 21.5 | -28.2 | -9.5 | -13.3 | 1.2 | 0.8 | 21.1 | 22.9 | 2.1 | 28.9 | 30.6 | 29.8 | 30.8 | 29.9 | 29.9 | 29.8 |
| 3900.00 | 21.6 | -28.2 | -9.6 | -13.6 | 1.2 | 0.8 | 21.0 | 22.9 | 2.1 | 30.2 | 30.6 | 29.8 | 30.3 | 30.1 | 30.2 | 30.1 |
| 4000.00 | 21.6 | -28.3 | -9.7 | -14.0 | 1.2 | 0.8 | 20.9 | 22.9 | 2.2 | 29.7 | 30.0 | 30.3 | 30.3 | 30.4 | 30.6 | 30.5 |
| 4100.00 | 21.7 | -28.2 | -10.0 | -14.5 | 1.2 | 0.8 | 20.9 | 22.9 | 2.2 | 28.5 | 29.4 | 30.0 | 30.7 | 30.1 | 30.2 | 30.1 |
| 4200.00 | 21.8 | -28.3 | -10.2 | -15.1 | 1.2 | 0.8 | 21.0 | 22.9 | 2.2 | 30.4 | 30.3 | 30.1 | 29.7 | 29.9 | 30.1 | 30.1 |
| 4300.00 | 21.8 | -28.4 | -10.5 | -15.5 | 1.3 | 0.8 | 20.8 | 22.8 | 2.2 | 30.5 | 30.5 | 30.0 | 29.8 | 30.2 | 30.3 | 30.3 |
| 4400.00 | 21.9 | -28.4 | -11.0 | -16.3 | 1.3 | 0.8 | 20.8 | 22.7 | 2.2 | 29.6 | 29.8 | 29.7 | 29.8 | 29.9 | 29.9 | 29.9 |
| 4500.00 | 21.9 | -28.3 | -11.3 | -17.0 | 1.3 | 0.8 | 20.5 | 22.6 | 2.1 | 29.8 | 28.8 | 29.5 | 30.1 | 29.8 | 29.9 | 29.8 |
| 4600.00 | 22.0 | -28.4 | -11.8 | -17.8 | 1.3 | 0.8 | 20.2 | 22.4 | 2.2 | 30.9 | 29.7 | 29.7 | 29.1 | 29.6 | 29.7 | 29.6 |
| 4700.00 | 22.0 | -28.5 | -12.3 | -18.7 | 1.3 | 0.8 | 20.3 | 22.5 | 2.2 | 28.8 | 29.0 | 29.1 | 29.3 | 29.3 | 29.4 | 29.3 |
| 4800.00 | 22.1 | -28.6 | -12.6 | -19.0 | 1.3 | 0.8 | 20.5 | 22.6 | 2.2 | 29.8 | 29.4 | 29.5 | 28.9 | 29.7 | 29.8 | 29.9 |
| 4900.00 | 22.1 | -28.6 | -13.4 | -19.8 | 1.3 | 0.8 | 20.3 | 22.3 | 2.3 | 28.7 | 29.1 | 28.9 | 29.7 | 29.1 | 29.2 | 29.1 |
| 5000.00 | 22.2 | -28.6 | -13.7 | -20.7 | 1.3 | 0.8 | 20.1 | 22.1 | 2.2 | 27.8 | 28.8 | 28.5 | 29.3 | 28.8 | 28.9 | 28.8 |
| 5100.00 | 22.3 | -28.7 | -13.9 | -20.8 | 1.3 | 0.8 | 20.5 | 22.3 | 2.2 | 28.1 | 28.8 | 28.5 | 29.2 | 28.7 | 28.9 | 28.8 |
| 5200.00 | 22.3 | -28.8 | -14.5 | -21.4 | 1.3 | 0.8 | 20.5 | 22.3 | 2.2 | 28.3 | 28.5 | 28.4 | 29.3 | 28.8 | 29.0 | 29.1 |
| 5300.00 | 22.4 | -28.8 | -14.2 | -21.1 | 1.3 | 0.8 | 20.1 | 22.1 | 2.3 | 27.7 | 28.7 | 28.4 | 28.8 | 28.7 | 28.8 | 28.8 |
| 5400.00 | 22.3 | -29.1 | -14.2 | -20.8 | 1.3 | 0.8 | 19.6 | 21.8 | 2.2 | 27.7 | 28.3 | 28.4 | 28.3 | 28.6 | 28.7 | 28.6 |
| 5500.00 | 22.3 | -29.0 | -14.2 | -21.4 | 1.3 | 0.8 | 19.3 | 21.5 | 2.2 | 27.2 | 28.1 | 27.6 | 28.6 | 27.9 | 27.9 | 27.7 |
| 5600.00 | 22.4 | -29.2 | -13.0 | -19.8 | 1.3 | 0.8 | 18.8 | 21.0 | 2.2 | 27.2 | 28.5 | 28.0 | 27.3 | 27.9 | 27.9 | 27.7 |
| 5700.00 | 22.2 | -29.5 | -12.6 | -19.2 | 1.4 | 0.9 | 18.7 | 20.7 | 2.2 | 27.2 | 27.9 | 26.8 | 26.8 | 27.0 | 27.0 | 26.7 |
| 5800.00 | 22.3 | -29.4 | -11.9 | -18.8 | 1.4 | 0.9 | 18.7 | 20.5 | 2.3 | 26.5 | 27.2 | 26.9 | 27.0 | 26.9 | 26.9 | 26.6 |
| 5900.00 | 22.2 | -29.9 | -10.6 | -17.0 | 1.4 | 0.9 | 18.8 | 20.4 | 2.3 | 26.9 | 27.3 | 27.2 | 27.3 | 27.1 | 27.1 | 26.9 |
| 6000.00 | 22.1 | -29.9 | -10.3 | -16.9 | 1.4 | 0.9 | 18.6 | 20.0 | 2.3 | 26.5 | 27.2 | 26.8 | 26.9 | 26.9 | 26.8 | 26.6 |
| 6100.00 | 22.1 | -30.0 | -9.2 | -15.6 | 1.4 | 0.9 | 18.7 | 20.0 | 2.3 | 27.3 | 27.0 | 27.0 | 27.0 | 27.2 | 27.2 | 27.0 |
| 6200.00 | 21.9 | -30.8 | -8.2 | -14.1 | 1.5 | 0.9 | 18.6 | 19.8 | 2.4 | 26.6 | 26.4 | 26.8 | 26.4 | 27.0 | 27.0 | 26.8 |
| 6300.00 | 21.7 | -30.6 | -7.9 | -13.8 | 1.5 | 1.0 | 18.6 | 19.7 | 2.5 | 26.2 | 26.5 | 26.3 | 26.7 | 26.4 | 26.4 | 26.1 |
| 6400.00 | 21.6 | -31.1 | -6.9 | -12.5 | 1.5 | 1.0 | 18.5 | 19.6 | 2.5 | 27.0 | 26.5 | 26.9 | 26.2 | 26.8 | 26.8 | 26.7 |
| 6500.00 | 21.3 | -31.7 | -6.3 | -11.7 | 1.5 | 1.0 | 18.4 | 19.5 | 2.5 | 26.6 | 25.9 | 26.4 | 26.5 | 26.5 | 26.5 | 26.2 |
| 6600.00 | 21.1 | -32.0 | -5.8 | -11.1 | 1.5 | 1.0 | 18.3 | 19.4 | 2.6 | 26.0 | 26.0 | 26.0 | 26.0 | 26.1 | 26.1 | 25.7 |
| 6700.00 | 20.8 | -32.7 | -5.1 | -10.1 | 1.6 | 1.1 | 18.0 | 19.1 | 2.5 | 26.3 | 25.7 | 26.2 | 26.3 | 26.3 | 26.2 | 25.8 |
| 6800.00 | 20.4 | -33.5 | -4.8 | -9.5 | 1.7 | 1.1 | 17.8 | 18.8 | 2.4 | 25.8 | 27.0 | 25.8 | 26.1 | 25.7 | 25.6 | 25.1 |
| 6900.00 | 20.1 | -34.1 | -4.3 | -9.0 | 1.8 | 1.1 | 17.6 | 18.6 | 2.5 | 25.1 | 25.0 | 25.4 | 25.6 | 25.5 | 25.3 | 24.7 |
| 7000.00 | 19.6 | -35.2 | -3.9 | -8.4 | 2.0 | 1.1 | 17.3 | 18.3 | 2.6 | 25.4 | 25.9 | 25.5 | 25.9 | 25.4 | 25.1 | 24.5 |
| 7100.00 | 19.0 | -36.0 | -3.8 | -8.0 | 2.2 | 1.1 | 17.0 | 17.9 | 2.6 | 25.6 | 25.6 | 25.5 | 25.9 | 25.4 | 25.1 | 24.4 |
| 7200.00 | 18.5 | -37.0 | -3.5 | -7.6 | 2.4 | 1.1 | 16.6 | 17.5 | 2.6 | 25.1 | 25.1 | 25.1 | 26.0 | 25.0 | 24.7 | 23.8 |
| 7300.00 | 17.8 | -38.6 | -3.3 | -7.2 | 2.9 | 1.1 | 16.2 | 17.0 | 2.7 | 24.4 | 25.6 | 24.5 | 25.3 | 24.3 | 23.8 | 22.8 |
| 7400.00 | 17.1 | -39.8 | -3.4 | -7.1 | 3.5 | 1.1 | 15.8 | 16.7 | 2.8 | 25.1 | 25.3 | 25.1 | 25.9 | 24.8 | 24.3 | 23.2 |
| 7500.00 | 16.5 | -41.3 | -3.2 | -6.8 | 4.2 | 1.1 | 15.3 | 16.1 | 2.9 | 23.7 | 24.7 | 24.1 | 24.3 | 23.5 | 22.7 | 21.4 |
| 7600.00 | 15.6 | -43.3 | -3.3 | -6.6 | 5.7 | 1.1 | 14.8 | 15.5 | 2.9 | 23.9 | 24.4 | 23.7 | 24.3 | 23.1 | 22.1 | 20.7 |
| 7700.00 | 14.9 | -44.2 | -3.4 | -6.5 | 6.8 | 1.1 | 14.2 | 14.9 | 2.9 | 23.0 | 23.8 | 23.0 | 23.6 | 22.1 | 20.9 | 19.2 |
| 7800.00 | 13.8 | -47.3 | -3.3 | -6.2 | 10.5 | 1.1 | 13.3 | 14.0 | 3.0 | 23.5 | 23.3 | 23.1 | 22.6 | 22.3 | 21.2 | 19.5 |
| 7900.00 | 12.5 | -47.2 | -3.7 | -6.0 | 12.5 | 1.1 | 12.2 | 13.0 | 3.1 | 21.5 | 21.8 | 21.1 | 21.0 | 19.0 | 17.2 | 12.3 |
| 8000.00 | 11.3 | -48.2 | -3.7 | -5.9 | 15.8 | 1.1 | 11.0 | 11.8 | 3.2 | 21.4 | 20.5 | 20.5 | 19.2 | 18.3 | 16.1 | 11.0 |

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 103 mA, $I_{EN}$ = 2.71 mA @ Temperature = + 105°C

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 47.3 | 47.2 | 47.2 | 47.1 | 47.0 | 46.8 | 46.5 |
| 1000.0 | 45.7 | 45.7 | 45.6 | 45.5 | 45.4 | 45.1 | 44.8 |
| 2000.0 | 43.0 | 42.8 | 42.7 | 42.6 | 42.5 | 42.3 | 42.3 |
| 4000.0 | 44.0 | 43.9 | 43.8 | 43.7 | 43.6 | 43.5 | 43.6 |
| 6000.0 | 34.3 | 34.1 | 34.1 | 33.9 | 33.7 | 33.6 | 33.5 |
| 8000.0 | 39.2 | 39.0 | 38.8 | 38.8 | 39.2 | 40.5 | 42.8 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = +6.25 V, $I_{DD}$ = 109 mA, $I_{EN}$ = 2.71 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | 3dB Comp. Output | Noise Figure | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.00 | 21.4 | 29.8 | -8.5 | -8.7 | 1.4 | 0.8 | 19.0 | 21.2 | 2.2 | 28.5 | 28.8 | 28.5 | 28.7 | 28.7 | 28.8 | 28.6 |
| 5600.00 | 21.5 | 29.8 | -8.3 | -8.7 | 1.4 | 0.8 | 18.7 | 20.9 | 2.1 | 27.4 | 26.9 | 27.2 | 27.4 | 27.5 | 27.5 | 27.2 |
| 5700.00 | 21.5 | 29.8 | -8.5 | -8.8 | 1.4 | 0.8 | 18.6 | 20.7 | 2.1 | 27.3 | 27.5 | 27.3 | 27.6 | 27.5 | 27.6 | 27.4 |
| 5800.00 | 21.7 | 30.1 | -8.2 | -8.8 | 1.4 | 0.8 | 18.6 | 20.5 | 2.1 | 27.1 | 26.9 | 27.3 | 27.4 | 27.5 | 27.6 | 27.5 |
| 5900.00 | 21.6 | 29.9 | -8.5 | -9.0 | 1.4 | 0.8 | 18.5 | 20.2 | 2.1 | 27.1 | 27.1 | 27.1 | 27.2 | 27.3 | 27.4 | 27.2 |
| 6000.00 | 21.8 | 30.2 | -8.1 | -8.9 | 1.4 | 0.8 | 18.4 | 19.9 | 2.1 | 26.2 | 25.5 | 26.0 | 26.2 | 26.2 | 26.2 | 25.9 |
| 6100.00 | 21.8 | 30.1 | -8.3 | -9.1 | 1.4 | 0.8 | 18.8 | 20.2 | 2.1 | 26.6 | 26.7 | 26.8 | 26.9 | 27.1 | 27.2 | 27.1 |
| 6200.00 | 21.9 | 30.4 | -8.0 | -9.0 | 1.4 | 0.8 | 18.9 | 20.2 | 2.1 | 25.9 | 26.3 | 26.4 | 26.6 | 26.7 | 26.8 | 26.7 |
| 6300.00 | 21.9 | 30.3 | -8.2 | -9.3 | 1.4 | 0.8 | 19.2 | 20.4 | 2.1 | 27.0 | 26.5 | 27.1 | 27.3 | 27.5 | 27.8 | 27.8 |
| 6400.00 | 21.9 | 30.6 | -7.9 | -9.1 | 1.4 | 0.8 | 19.4 | 20.5 | 2.1 | 27.0 | 26.6 | 27.0 | 27.1 | 27.4 | 27.6 | 27.7 |
| 6500.00 | 21.9 | 30.7 | -8.1 | -9.5 | 1.4 | 0.8 | 19.3 | 20.4 | 2.2 | 26.7 | 27.1 | 26.9 | 27.2 | 27.5 | 27.8 | 27.9 |
| 6600.00 | 22.0 | 30.9 | -7.8 | -9.4 | 1.4 | 0.8 | 19.4 | 20.5 | 2.2 | 27.2 | 26.8 | 27.1 | 27.2 | 27.5 | 27.8 | 27.9 |
| 6700.00 | 21.9 | 31.0 | -8.1 | -9.8 | 1.5 | 0.9 | 19.5 | 20.5 | 2.2 | 26.5 | 26.8 | 26.8 | 27.1 | 27.5 | 27.7 | 27.8 |
| 6800.00 | 22.0 | 31.3 | -7.8 | -9.7 | 1.5 | 0.9 | 19.5 | 20.6 | 2.2 | 26.8 | 26.7 | 27.0 | 27.3 | 27.6 | 28.0 | 28.2 |
| 6900.00 | 21.9 | 31.5 | -8.1 | -10.2 | 1.6 | 0.9 | 19.6 | 20.6 | 2.2 | 26.3 | 26.5 | 27.0 | 27.2 | 27.6 | 28.1 | 28.3 |
| 7000.00 | 21.9 | 32.0 | -7.8 | -10.2 | 1.6 | 0.9 | 19.5 | 20.5 | 2.3 | 26.0 | 26.7 | 26.8 | 27.0 | 27.3 | 27.7 | 27.9 |
| 7100.00 | 21.8 | 32.1 | -8.0 | -10.7 | 1.7 | 0.9 | 19.5 | 20.5 | 2.3 | 27.1 | 26.6 | 27.0 | 27.2 | 27.6 | 28.0 | 28.3 |
| 7200.00 | 21.7 | 32.6 | -7.8 | -10.8 | 1.7 | 0.9 | 19.5 | 20.5 | 2.4 | 26.8 | 26.7 | 26.7 | 27.1 | 27.5 | 27.9 | 28.2 |
| 7300.00 | 21.6 | 32.9 | -8.0 | -11.5 | 1.8 | 1.0 | 19.4 | 20.3 | 2.4 | 25.8 | 26.3 | 26.4 | 26.8 | 27.1 | 27.6 | 27.8 |
| 7400.00 | 21.4 | 33.5 | -7.7 | -11.7 | 1.9 | 1.0 | 19.3 | 20.3 | 2.5 | 26.8 | 25.9 | 26.6 | 26.8 | 27.2 | 27.6 | 27.9 |
| 7500.00 | 21.2 | 33.8 | -7.9 | -12.6 | 2.1 | 1.0 | 19.2 | 20.1 | 2.6 | 26.1 | 26.2 | 26.5 | 26.9 | 27.3 | 27.7 | 28.0 |
| 7600.00 | 21.0 | 34.6 | -7.5 | -12.9 | 2.3 | 1.0 | 19.0 | 19.8 | 2.6 | 26.5 | 26.3 | 26.5 | 27.0 | 27.4 | 27.8 | 28.0 |
| 7700.00 | 20.6 | 35.1 | -7.6 | -14.1 | 2.5 | 1.1 | 18.8 | 19.6 | 2.7 | 25.1 | 25.4 | 25.7 | 26.0 | 26.4 | 26.7 | 26.6 |
| 7800.00 | 20.2 | 36.2 | -7.0 | -14.3 | 2.8 | 1.1 | 18.6 | 19.5 | 2.8 | 26.1 | 26.0 | 26.5 | 26.7 | 27.1 | 27.5 | 27.7 |
| 7900.00 | 19.7 | 36.7 | -6.9 | -15.6 | 3.1 | 1.1 | 18.4 | 19.2 | 3.0 | 25.8 | 25.9 | 26.4 | 26.7 | 27.1 | 27.5 | 27.7 |
| 8000.00 | 19.1 | 38.3 | -6.1 | -15.1 | 3.8 | 1.2 | 18.2 | 18.9 | 3.1 | 25.3 | 25.3 | 25.7 | 26.1 | 26.7 | 27.0 | 26.8 |
| 8100.00 | 18.4 | 38.4 | -5.9 | -15.6 | 4.0 | 1.2 | 17.8 | 18.5 | 3.2 | 25.2 | 25.2 | 25.9 | 26.2 | 26.7 | 27.0 | 26.7 |
| 8200.00 | 17.5 | 40.5 | -5.1 | -14.0 | 5.2 | 1.3 | 17.4 | 18.1 | 3.4 | 24.8 | | 25.4 | 25.9 | 26.3 | 26.4 | 25.3 |
| 8300.00 | 16.7 | 40.6 | -4.8 | -13.3 | 5.4 | 1.3 | 17.0 | 17.7 | 3.6 | 25.2 | 25.2 | 25.7 | 26.2 | 26.6 | 26.7 | 25.6 |
| 8400.00 | 15.4 | 42.7 | -4.1 | -11.4 | 7.1 | 1.3 | 16.5 | 17.1 | 3.8 | 25.7 | 25.5 | 26.3 | 26.8 | 27.1 | 27.0 | 25.7 |
| 8500.00 | 14.5 | 43.0 | -3.8 | -10.4 | 7.6 | 1.3 | 15.9 | 16.5 | 4.0 | 24.4 | 24.7 | 25.3 | 25.7 | 25.9 | 24.7 | 22.4 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 37.5 | 37.4 | 37.3 | 37.2 | 37.1 | 37.0 | 36.9 |
| 6000.0 | 35.3 | 35.2 | 35.0 | 34.9 | 34.7 | 34.6 | 34.5 |
| 7000.0 | 45.0 | 44.9 | 44.7 | 44.6 | 44.4 | 44.4 | 44.4 |
| 8000.0 | 53.0 | 52.9 | 52.7 | 52.5 | 52.4 | 52.3 | 52.5 |
| 8500.0 | 60.6 | 60.4 | 60.3 | 60.1 | 60.0 | 60.1 | 60.5 |

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 200.00 | -3.8 | -3.9 | -4.0 | -9.2 | 1.1 | 0.9 | 4.0 |
| 300.00 | -2.4 | -2.5 | -6.7 | -12.0 | 1.0 | 0.7 | 2.8 |
| 400.00 | -1.8 | -1.9 | -9.3 | -14.1 | 1.0 | 0.6 | 2.0 |
| 500.00 | -1.5 | -1.5 | -12.0 | -15.7 | 1.0 | 0.5 | 1.6 |
| 600.00 | -1.3 | -1.4 | -14.9 | -16.9 | 1.0 | 0.5 | 1.5 |
| 700.00 | -1.3 | -1.3 | -18.1 | -17.7 | 1.0 | 0.5 | 1.6 |
| 800.00 | -1.2 | -1.3 | -22.1 | -17.8 | 1.0 | 0.4 | 1.8 |
| 900.00 | -1.2 | -1.3 | -26.9 | -17.6 | 1.0 | 0.4 | 1.5 |
| 1000.00 | -1.2 | -1.3 | -30.2 | -17.2 | 1.0 | 0.4 | 1.3 |
| 1100.00 | -1.2 | -1.3 | -26.4 | -16.9 | 1.0 | 0.4 | 1.7 |
| 1200.00 | -1.2 | -1.3 | -22.9 | -16.7 | 1.0 | 0.4 | 1.6 |
| 1300.00 | -1.2 | -1.3 | -20.5 | -16.3 | 1.0 | 0.4 | 1.3 |
| 1400.00 | -1.2 | -1.4 | -18.7 | -15.8 | 1.0 | 0.4 | 1.6 |
| 1500.00 | -1.3 | -1.4 | -17.4 | -15.5 | 1.0 | 0.5 | 1.6 |
| 1600.00 | -1.3 | -1.5 | -16.2 | -15.4 | 1.0 | 0.5 | 1.7 |
| 1700.00 | -1.3 | -1.5 | -15.4 | -15.3 | 1.0 | 0.5 | 1.8 |
| 1800.00 | -1.4 | -1.5 | -14.7 | -15.2 | 1.0 | 0.5 | 1.9 |
| 1900.00 | -1.4 | -1.6 | -14.2 | -15.1 | 1.0 | 0.5 | 2.1 |
| 2000.00 | -1.4 | -1.6 | -13.7 | -15.0 | 1.0 | 0.5 | 1.9 |
| 2100.00 | -1.5 | -1.7 | -13.5 | -15.1 | 1.0 | 0.5 | 1.7 |
| 2200.00 | -1.5 | -1.7 | -13.2 | -15.4 | 1.0 | 0.5 | 2.1 |
| 2300.00 | -1.5 | -1.8 | -13.1 | -15.6 | 1.0 | 0.6 | 2.0 |
| 2400.00 | -1.6 | -1.8 | -13.0 | -15.8 | 1.0 | 0.6 | 2.1 |
| 2500.00 | -1.6 | -1.9 | -12.9 | -16.2 | 1.1 | 0.6 | 2.1 |
| 2600.00 | -1.6 | -1.9 | -13.0 | -16.8 | 1.1 | 0.6 | 2.1 |
| 2700.00 | -1.6 | -2.0 | -13.1 | -17.5 | 1.1 | 0.6 | 2.3 |
| 2800.00 | -1.6 | -2.0 | -13.2 | -18.2 | 1.1 | 0.6 | 2.1 |
| 2900.00 | -1.7 | -2.1 | -13.4 | -19.0 | 1.1 | 0.6 | 2.4 |
| 3000.00 | -1.7 | -2.1 | -13.5 | -20.1 | 1.1 | 0.7 | 2.1 |
| 3100.00 | -1.7 | -2.1 | -13.6 | -21.4 | 1.1 | 0.7 | 2.5 |
| 3200.00 | -1.7 | -2.1 | -13.7 | -23.1 | 1.1 | 0.7 | 2.5 |
| 3300.00 | -1.7 | -2.1 | -13.8 | -24.6 | 1.1 | 0.7 | 2.5 |
| 3400.00 | -1.7 | -2.1 | -13.8 | -26.1 | 1.1 | 0.7 | 2.6 |
| 3500.00 | -1.7 | -2.1 | -13.8 | -27.0 | 1.1 | 0.7 | 2.4 |
| 3600.00 | -1.7 | -2.1 | -13.8 | -25.5 | 1.1 | 0.7 | 2.5 |
| 3700.00 | -1.8 | -2.1 | -13.7 | -23.5 | 1.1 | 0.7 | 2.5 |
| 3800.00 | -1.8 | -2.1 | -13.5 | -21.6 | 1.1 | 0.7 | 2.3 |
| 3900.00 | -1.8 | -2.1 | -13.2 | -20.0 | 1.1 | 0.7 | 2.6 |
| 4000.00 | -1.8 | -2.2 | -13.0 | -18.5 | 1.1 | 0.7 | 2.3 |
| 4100.00 | -1.8 | -2.2 | -12.7 | -17.1 | 1.1 | 0.7 | 2.2 |
| 4200.00 | -1.8 | -2.2 | -12.4 | -16.1 | 1.1 | 0.7 | 2.2 |
| 4300.00 | -1.9 | -2.2 | -12.2 | -15.3 | 1.1 | 0.6 | 2.3 |
| 4400.00 | -1.9 | -2.3 | -11.9 | -14.6 | 1.1 | 0.6 | 2.1 |
| 4500.00 | -1.9 | -2.3 | -11.7 | -14.0 | 1.1 | 0.6 | 2.4 |
| 4600.00 | -1.9 | -2.3 | -11.5 | -13.4 | 1.1 | 0.6 | 2.4 |
| 4700.00 | -1.9 | -2.3 | -11.3 | -13.0 | 1.1 | 0.6 | 2.3 |
| 4800.00 | -2.0 | -2.4 | -11.2 | -12.7 | 1.1 | 0.6 | 2.4 |
| 4900.00 | -2.0 | -2.4 | -11.2 | -12.4 | 1.1 | 0.6 | 2.4 |
| 5000.00 | -2.0 | -2.4 | -11.0 | -12.1 | 1.1 | 0.6 | 2.2 |
| 5100.00 | -2.0 | -2.4 | -11.0 | -11.9 | 1.1 | 0.6 | 2.5 |
| 5200.00 | -2.0 | -2.5 | -10.9 | -11.8 | 1.1 | 0.6 | 2.3 |
| 5300.00 | -1.9 | -2.5 | -11.0 | -11.7 | 1.1 | 0.6 | 2.4 |
| 5400.00 | -2.0 | -2.5 | -11.1 | -11.6 | 1.1 | 0.6 | 1.9 |
| 5500.00 | -1.9 | -2.5 | -11.1 | -11.5 | 1.1 | 0.6 | 1.8 |
| 5600.00 | -1.9 | -2.5 | -11.3 | -11.6 | 1.1 | 0.6 | 2.4 |
| 5700.00 | -1.9 | -2.5 | -11.4 | -11.6 | 1.1 | 0.6 | 2.4 |
| 5800.00 | -1.9 | -2.5 | -11.5 | -11.6 | 1.1 | 0.6 | 1.8 |
| 5900.00 | -1.9 | -2.5 | -11.9 | -11.8 | 1.1 | 0.6 | 1.1 |
| 6000.00 | -1.8 | -2.5 | -12.0 | -11.8 | 1.1 | 0.6 | 1.7 |
| 6100.00 | -1.8 | -2.4 | -12.4 | -12.0 | 1.1 | 0.6 | 2.4 |
| 6200.00 | -1.8 | -2.4 | -12.8 | -12.3 | 1.1 | 0.6 | 2.6 |
| 6300.00 | -1.7 | -2.4 | -13.0 | -12.3 | 1.1 | 0.6 | 1.8 |
| 6400.00 | -1.7 | -2.4 | -13.4 | -12.6 | 1.1 | 0.6 | 2.2 |
| 6500.00 | -1.7 | -2.4 | -13.7 | -12.7 | 1.1 | 0.6 | 2.2 |
| 6600.00 | -1.7 | -2.4 | -14.0 | -12.8 | 1.1 | 0.6 | 1.8 |
| 6700.00 | -1.6 | -2.4 | -14.5 | -13.2 | 1.1 | 0.6 | 3.1 |
| 6800.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 1.9 |
| 6900.00 | -1.7 | -2.4 | -14.8 | -13.3 | 1.1 | 0.6 | 2.9 |
| 7000.00 | -1.7 | -2.4 | -15.1 | -13.5 | 1.1 | 0.6 | 2.3 |
| 7100.00 | -1.7 | -2.5 | -15.0 | -13.5 | 1.1 | 0.6 | 2.4 |
| 7200.00 | -1.7 | -2.5 | -14.8 | -13.5 | 1.1 | 0.6 | 2.5 |
| 7300.00 | -1.8 | -2.5 | -14.7 | -13.4 | 1.1 | 0.6 | 2.6 |
| 7400.00 | -1.9 | -2.6 | -14.1 | -13.0 | 1.1 | 0.6 | 3.1 |
| 7500.00 | -1.9 | -2.6 | -13.6 | -12.8 | 1.1 | 0.6 | 3.0 |
| 7600.00 | -2.0 | -2.8 | -13.1 | -12.4 | 1.2 | 0.7 | 2.8 |
| 7700.00 | -2.1 | -2.8 | -12.3 | -11.8 | 1.2 | 0.7 | 3.2 |
| 7800.00 | -2.2 | -2.9 | -11.8 | -11.4 | 1.2 | 0.7 | 2.3 |
| 7900.00 | -2.4 | -3.1 | -11.1 | -10.7 | 1.2 | 0.7 | 3.0 |
| 8000.00 | -2.5 | -3.2 | -10.2 | -10.0 | 1.2 | 0.7 | 2.7 |

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 27.2 | 26.2 | 24.3 | 21.2 | 16.2 | 14.1 | 12.8 |
| 1000.0 | 29.3 | 28.3 | 26.5 | 23.2 | 17.1 | 13.9 | 14.3 |
| 2000.0 | 30.8 | 30.1 | 28.9 | 26.7 | 22.6 | 16.6 | 16.0 |
| 4000.0 | 31.1 | 30.7 | 29.9 | 28.8 | 26.5 | 21.8 | 18.0 |
| 6000.0 | 32.4 | 31.9 | 30.9 | 29.2 | 26.0 | 19.6 | 16.2 |
| 8000.0 | 32.7 | 32.3 | 31.3 | 29.7 | 26.3 | 19.1 | 16.1 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 400.0 | 70.0 | 68.8 | 66.8 | 62.4 | 51.7 | 44.9 | 43.9 |
| 1000.0 | 71.5 | 71.2 | 69.9 | 65.5 | 53.2 | 59.9 | 49.6 |
| 2000.0 | 70.1 | 69.6 | 68.9 | 67.3 | 62.4 | 54.9 | 46.3 |
| 4000.0 | 74.1 | 74.1 | 74.2 | 74.6 | 75.4 | 72.3 | 49.8 |
| 6000.0 | 72.9 | 72.7 | 72.3 | 71.7 | 69.7 | 61.8 | 54.7 |
| 8000.0 | 83.2 | 82.9 | 82.8 | 82.1 | 80.5 | 73.7 | 64.5 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 400.0 | 11.0 | 8.1 |
| 1000.0 | 10.8 | 8.7 |
| 2000.0 | 12.5 | 10.1 |
| 4000.0 | 14.3 | 11.8 |
| 6000.0 | 14.7 | 11.8 |
| 8000.0 | 14.7 | 11.3 |

## *Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD}$ = +6.25 V, $V_{EN}$ = 0 V, $I_{DD}$ = 4 mA, $I_{EN}$ = 0 mA @ Temperature = +105°C

| FREQ | Insertion Loss | Isolation | Input Return Loss | Output Return Loss | Stability | | Noise Figure |
|---|---|---|---|---|---|---|---|
| (GHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dB) |
| 5500.00 | -1.8 | -2.4 | -20.0 | -17.3 | 1.1 | 0.7 | 3.0 |
| 5600.00 | -1.7 | -2.4 | -20.5 | -17.1 | 1.1 | 0.7 | 3.1 |
| 5700.00 | -1.7 | -2.5 | -20.4 | -16.9 | 1.1 | 0.7 | 3.1 |
| 5800.00 | -1.7 | -2.5 | -19.8 | -16.2 | 1.1 | 0.7 | 2.9 |
| 5900.00 | -1.7 | -2.5 | -18.9 | -15.8 | 1.1 | 0.7 | 2.7 |
| 6000.00 | -1.7 | -2.5 | -18.2 | -15.1 | 1.1 | 0.7 | 3.0 |
| 6100.00 | -1.7 | -2.5 | -17.1 | -14.4 | 1.1 | 0.7 | 3.0 |
| 6200.00 | -1.7 | -2.6 | -16.2 | -13.8 | 1.1 | 0.7 | 2.9 |
| 6300.00 | -1.8 | -2.6 | -15.2 | -13.2 | 1.1 | 0.7 | 2.9 |
| 6400.00 | -1.8 | -2.7 | -14.5 | -12.7 | 1.1 | 0.7 | 2.8 |
| 6500.00 | -1.8 | -2.7 | -13.7 | -12.1 | 1.1 | 0.7 | 3.2 |
| 6600.00 | -1.9 | -2.8 | -13.0 | -11.6 | 1.1 | 0.7 | 3.1 |
| 6700.00 | -1.9 | -2.8 | -12.3 | -11.1 | 1.1 | 0.7 | 3.1 |
| 6800.00 | -2.0 | -2.9 | -11.7 | -10.6 | 1.1 | 0.7 | 3.0 |
| 6900.00 | -2.0 | -3.0 | -11.0 | -10.1 | 1.1 | 0.7 | 3.1 |
| 7000.00 | -2.1 | -3.1 | -10.5 | -9.7 | 1.1 | 0.7 | 3.4 |
| 7100.00 | -2.2 | -3.1 | -9.9 | -9.3 | 1.1 | 0.7 | 3.1 |
| 7200.00 | -2.3 | -3.2 | -9.4 | -8.9 | 1.1 | 0.7 | 3.6 |
| 7300.00 | -2.4 | -3.4 | -8.8 | -8.4 | 1.1 | 0.7 | 3.4 |
| 7400.00 | -2.6 | -3.5 | -8.4 | -8.1 | 1.2 | 0.7 | 3.4 |
| 7500.00 | -2.7 | -3.6 | -7.9 | -7.6 | 1.2 | 0.6 | 3.7 |
| 7600.00 | -2.9 | -3.8 | -7.4 | -7.3 | 1.2 | 0.6 | 3.4 |
| 7700.00 | -3.1 | -3.9 | -7.0 | -6.8 | 1.2 | 0.6 | 3.5 |
| 7800.00 | -3.2 | -4.1 | -6.6 | -6.6 | 1.2 | 0.6 | 3.1 |
| 7900.00 | -3.4 | -4.3 | -6.2 | -6.2 | 1.2 | 0.6 | 4.0 |
| 8000.00 | -3.6 | -4.5 | -5.8 | -5.9 | 1.2 | 0.6 | 4.0 |
| 8100.00 | -3.9 | -4.7 | -5.4 | -5.5 | 1.2 | 0.6 | 3.9 |
| 8200.00 | -4.1 | -4.9 | -5.1 | -5.3 | 1.2 | 0.6 | 4.0 |
| 8300.00 | -4.3 | -5.1 | -4.8 | -4.9 | 1.2 | 0.6 | 4.1 |
| 8400.00 | -4.5 | -5.3 | -4.6 | -4.8 | 1.2 | 0.6 | 4.4 |
| 8500.00 | -4.7 | -5.5 | -4.2 | -4.4 | 1.2 | 0.6 | 4.4 |

| FREQ | 1dB Comp. Input | 1dB Comp. Output |
|---|---|---|
| (MHz) | (dBm) | (dBm) |
| 5500.0 | 13.5 | 10.5 |
| 6000.0 | 13.8 | 11.0 |
| 7000.0 | 15.4 | 11.9 |
| 8000.0 | 16.2 | 11.0 |
| 8500.0 | 15.2 | 9.7 |

| FREQ | IP-2 Output Pout = -2 | IP-2 Output Pout = +0 | IP-2 Output Pout = +2 | IP-2 Output Pout = +4 | IP-2 Output Pout = +6 | IP-2 Output Pout = +8 | IP-2 Output Pout = +10 | IP-3 Output Pout = -2 | IP-3 Output Pout = +0 | IP-3 Output Pout = +2 | IP-3 Output Pout = +4 | IP-3 Output Pout = +6 | IP-3 Output Pout = +8 | IP-3 Output Pout = +10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) |
| 5500.0 | 72.0 | 71.9 | 71.7 | 70.9 | 68.3 | 62.5 | 55.2 | 33.3 | 32.8 | 31.8 | 31.5 | 29.2 | 25.2 | 18.8 |
| 6000.0 | 75.3 | 75.3 | 75.2 | 74.9 | 74.2 | 71.2 | 63.2 | 33.7 | 33.3 | 32.8 | 30.9 | 27.9 | 21.4 | 16.3 |
| 7000.0 | 85.9 | 85.7 | 85.4 | 84.7 | 83.1 | 78.4 | 65.7 | 34.4 | 33.7 | 33.3 | 30.3 | 27.7 | 23.4 | 18.5 |
| 8000.0 | 83.5 | 83.4 | 83.1 | 82.8 | 81.9 | 78.4 | 72.3 | 33.6 | 33.2 | 32.4 | 32.2 | 30.1 | 26.3 | 18.7 |
| 8500.0 | 94.2 | 94.3 | 94.3 | 94.0 | 91.2 | 99.4 | 100.9 | 32.8 | 32.0 | 30.6 | 28.0 | 22.6 | 15.5 | 15.3 |