

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: $V_{DD} = +2.7\text{ V}$, $V_{SHUTDOWN} = 0\text{ V}$, $I_{DD} = 25\text{ mA}$, $I_{SHUTDOWN} = 0.0189\text{ }\mu\text{A}$ @ Temperature = +25°C

| FREQ (MHz) | Gain (dB) | Isolation (dB) | Input Return Loss (dB) | Output Return Loss (dB) | Stability | | 1dB Comp. Output (dBm) | Noise Figure (dB) | IP-3 Output P _{OUT} = +4 (dBm) |
|---------------|--------------|-------------------|---------------------------------|----------------------------------|-----------|---------|---------------------------------|-------------------------|--|
| | | | | | K | Measure | | | |
| 300 | 27.7 | -37.3 | -2.3 | -4.5 | 0.7 | 0.8 | 17.5 | 0.3 | 24.5 |
| 400 | 26.9 | -35.2 | -2.9 | -4.9 | 0.7 | 0.8 | 17.5 | 0.3 | 24.2 |
| 500 | 26.2 | -34.0 | -3.5 | -5.2 | 0.7 | 0.8 | 17.1 | 0.3 | 24.4 |
| 550 | 25.8 | -33.5 | -3.8 | -5.4 | 0.7 | 0.8 | 17.2 | 0.3 | 24.3 |
| 600 | 25.3 | -33.5 | -4.1 | -5.6 | 0.8 | 0.9 | 16.9 | 0.3 | 24.7 |
| 650 | 25.0 | -32.9 | -4.4 | -5.7 | 0.8 | 0.9 | 17.4 | 0.3 | 24.3 |
| 700 | 24.6 | -32.5 | -4.6 | -5.9 | 0.8 | 0.9 | 17.3 | 0.2 | 24.3 |
| 750 | 24.2 | -32.2 | -4.9 | -6.0 | 0.8 | 0.9 | 17.5 | 0.3 | 24.2 |
| 800 | 23.8 | -31.8 | -5.2 | -6.2 | 0.8 | 0.9 | 17.1 | 0.4 | 24.6 |
| 850 | 23.4 | -31.5 | -5.4 | -6.3 | 0.9 | 0.9 | 17.2 | 0.3 | 24.5 |
| 900 | 23.1 | -31.2 | -5.7 | -6.4 | 0.9 | 0.9 | 17.1 | 0.3 | 24.5 |
| 950 | 22.7 | -31.0 | -5.9 | -6.5 | 0.9 | 0.9 | 17.1 | 0.3 | 24.5 |
| 1000 | 22.4 | -30.9 | -6.2 | -6.6 | 0.9 | 0.9 | 17.3 | 0.3 | 24.6 |
| 1100 | 21.7 | -30.3 | -6.5 | -6.7 | 1.0 | 0.9 | 17.5 | 0.3 | 24.7 |
| 1200 | 21.1 | -29.9 | -6.9 | -6.8 | 1.0 | 0.9 | 17.4 | 0.4 | 24.6 |
| 1300 | 20.5 | -29.5 | -7.3 | -6.9 | 1.0 | 0.9 | 18.1 | 0.4 | 24.5 |
| 1400 | 20.0 | -29.1 | -7.6 | -7.0 | 1.1 | 0.9 | 17.7 | 0.4 | 24.9 |
| 1500 | 19.5 | -28.7 | -8.0 | -7.0 | 1.1 | 0.9 | 18.2 | 0.4 | 24.2 |
| 1600 | 19.0 | -28.4 | -8.2 | -7.1 | 1.1 | 0.9 | 17.9 | 0.3 | 24.8 |
| 1700 | 18.5 | -28.1 | -8.5 | -7.2 | 1.2 | 0.9 | 18.1 | 0.3 | 24.8 |
| 1800 | 18.1 | -27.7 | -8.7 | -7.2 | 1.2 | 0.9 | 18.4 | 0.4 | 24.6 |
| 1900 | 17.6 | -27.3 | -9.0 | -7.2 | 1.2 | 0.9 | 18.3 | 0.4 | 24.8 |
| 2000 | 17.2 | -27.1 | -9.3 | -7.2 | 1.2 | 0.9 | 17.8 | 0.4 | 24.8 |
| 2100 | 16.9 | -26.8 | -9.4 | -7.2 | 1.2 | 0.9 | 17.8 | 0.5 | 24.7 |
| 2200 | 16.5 | -26.5 | -9.7 | -7.3 | 1.3 | 0.9 | 18.1 | 0.5 | 24.8 |
| 2300 | 16.1 | -26.2 | -9.8 | -7.3 | 1.3 | 0.9 | 17.7 | 0.4 | 25.0 |
| 2400 | 15.8 | -25.8 | -10.1 | -7.3 | 1.3 | 0.8 | 18.2 | 0.5 | 24.8 |
| 2500 | 15.5 | -25.6 | -10.2 | -7.4 | 1.3 | 0.9 | 18.0 | 0.5 | 25.2 |
| 2600 | 15.2 | -25.3 | -10.3 | -7.5 | 1.3 | 0.9 | 18.4 | 0.4 | 24.8 |
| 2700 | 14.9 | -25.0 | -10.5 | -7.6 | 1.3 | 0.9 | 18.0 | 0.5 | 25.0 |
| 2800 | 14.6 | -24.8 | -10.6 | -7.7 | 1.3 | 0.9 | 18.5 | 0.5 | 24.8 |
| 2900 | 14.3 | -24.5 | -10.5 | -7.9 | 1.3 | 0.9 | 18.3 | 0.6 | 25.0 |
| 3000 | 14.1 | -24.2 | -10.5 | -8.4 | 1.4 | 0.9 | 18.0 | 0.5 | 25.4 |
| 3100 | 14.0 | -23.9 | -10.7 | -8.5 | 1.4 | 0.9 | 18.4 | 0.5 | 25.5 |
| 3200 | 13.8 | -23.6 | -10.6 | -8.6 | 1.3 | 0.9 | 18.6 | 0.6 | 25.2 |
| 3300 | 13.5 | -23.4 | -10.6 | -8.8 | 1.4 | 0.9 | 18.3 | 0.6 | 25.2 |
| 3400 | 13.3 | -23.2 | -10.5 | -9.1 | 1.4 | 0.9 | 18.4 | 0.7 | 25.2 |
| 3500 | 13.1 | -23.0 | -10.4 | -9.3 | 1.4 | 0.9 | 18.2 | 0.8 | 25.5 |
| 3600 | 12.8 | -22.8 | -10.2 | -9.5 | 1.4 | 0.9 | 18.5 | 0.9 | 25.1 |
| 3700 | 12.5 | -22.8 | -9.4 | -10.1 | 1.4 | 1.0 | 18.6 | 0.9 | 25.4 |
| 3800 | 12.5 | -22.4 | -9.5 | -10.5 | 1.4 | 1.0 | 18.6 | 0.9 | 25.1 |
| 3900 | 12.3 | -22.2 | -9.3 | -10.9 | 1.4 | 1.0 | 18.4 | 0.8 | 25.0 |
| 4000 | 12.1 | -22.0 | -9.1 | -11.2 | 1.4 | 1.0 | 17.7 | 0.9 | 25.5 |
| 5000 | 10.1 | -20.8 | -7.2 | -11.8 | 1.4 | 1.1 | 18.1 | 1.4 | 24.3 |

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} = +3 V, V_{SHUTDOWN} = 0 V, I_{DD} = 30 mA, I_{SHUTDOWN} = 0.0293 µA @ Temperature = +25°C

| FREQ (MHz) | Gain (dB) | Isolation (dB) | Input Return Loss (dB) | Output Return Loss (dB) | Stability | | 1dB Comp. Output (dBm) | Noise Figure (dB) | IP-3 Output P _{OUT} = +4 (dBm) |
|---------------|--------------|-------------------|---------------------------------|----------------------------------|-----------|---------|---------------------------------|-------------------------|--|
| | | | | | K | Measure | | | |
| 300 | 28.4 | -37.8 | -2.5 | -4.6 | 0.8 | 0.8 | 18.5 | 0.3 | 26.1 |
| 400 | 27.6 | -36.3 | -3.1 | -5.0 | 0.8 | 0.8 | 18.5 | 0.3 | 25.8 |
| 500 | 26.8 | -34.9 | -3.7 | -5.3 | 0.8 | 0.8 | 18.1 | 0.2 | 26.1 |
| 550 | 26.4 | -34.6 | -4.0 | -5.5 | 0.8 | 0.8 | 18.2 | 0.3 | 26.0 |
| 600 | 25.9 | -34.1 | -4.4 | -5.6 | 0.8 | 0.8 | 17.9 | 0.2 | 26.4 |
| 650 | 25.6 | -33.7 | -4.7 | -5.8 | 0.8 | 0.8 | 18.4 | 0.3 | 26.1 |
| 700 | 25.2 | -33.1 | -5.0 | -5.9 | 0.8 | 0.8 | 18.3 | 0.2 | 26.0 |
| 750 | 24.7 | -32.8 | -5.3 | -6.0 | 0.9 | 0.8 | 18.4 | 0.3 | 26.0 |
| 800 | 24.4 | -32.5 | -5.5 | -6.2 | 0.9 | 0.8 | 18.1 | 0.4 | 26.4 |
| 850 | 24.0 | -32.4 | -5.8 | -6.3 | 0.9 | 0.9 | 18.1 | 0.3 | 26.2 |
| 900 | 23.6 | -31.9 | -6.1 | -6.3 | 0.9 | 0.8 | 18.1 | 0.3 | 26.3 |
| 950 | 23.3 | -31.7 | -6.3 | -6.4 | 0.9 | 0.8 | 18.1 | 0.3 | 26.4 |
| 1000 | 22.9 | -31.3 | -6.6 | -6.5 | 1.0 | 0.8 | 18.2 | 0.3 | 26.5 |
| 1100 | 22.3 | -30.9 | -6.9 | -6.6 | 1.0 | 0.8 | 18.4 | 0.3 | 26.6 |
| 1200 | 21.6 | -30.5 | -7.4 | -6.7 | 1.0 | 0.9 | 18.3 | 0.3 | 26.5 |
| 1300 | 21.0 | -30.1 | -7.7 | -6.8 | 1.1 | 0.9 | 19.1 | 0.3 | 26.4 |
| 1400 | 20.5 | -29.6 | -8.1 | -6.9 | 1.1 | 0.8 | 18.6 | 0.3 | 26.8 |
| 1500 | 19.9 | -29.2 | -8.4 | -6.9 | 1.1 | 0.8 | 19.2 | 0.3 | 26.2 |
| 1600 | 19.4 | -28.9 | -8.7 | -6.9 | 1.2 | 0.8 | 18.9 | 0.3 | 26.8 |
| 1700 | 19.0 | -28.5 | -9.0 | -7.0 | 1.2 | 0.8 | 19.2 | 0.3 | 26.7 |
| 1800 | 18.5 | -28.1 | -9.3 | -7.0 | 1.2 | 0.8 | 19.3 | 0.4 | 26.6 |
| 1900 | 18.1 | -27.8 | -9.5 | -7.0 | 1.2 | 0.8 | 19.3 | 0.4 | 26.8 |
| 2000 | 17.7 | -27.5 | -9.8 | -7.0 | 1.2 | 0.8 | 18.7 | 0.4 | 26.9 |
| 2100 | 17.3 | -27.1 | -10.0 | -7.0 | 1.2 | 0.8 | 18.7 | 0.4 | 26.7 |
| 2200 | 16.9 | -26.8 | -10.3 | -7.1 | 1.3 | 0.8 | 19.1 | 0.4 | 26.9 |
| 2300 | 16.6 | -26.5 | -10.4 | -7.1 | 1.3 | 0.8 | 18.7 | 0.5 | 27.1 |
| 2400 | 16.3 | -26.2 | -10.6 | -7.1 | 1.3 | 0.8 | 19.3 | 0.4 | 26.8 |
| 2500 | 16.0 | -25.9 | -10.8 | -7.2 | 1.3 | 0.8 | 19.0 | 0.4 | 27.2 |
| 2600 | 15.7 | -25.6 | -10.9 | -7.3 | 1.3 | 0.8 | 19.3 | 0.5 | 26.9 |
| 2700 | 15.4 | -25.4 | -11.1 | -7.4 | 1.3 | 0.8 | 19.0 | 0.4 | 27.0 |
| 2800 | 15.1 | -25.1 | -11.2 | -7.4 | 1.3 | 0.8 | 19.6 | 0.5 | 26.8 |
| 2900 | 14.8 | -24.9 | -11.1 | -7.6 | 1.4 | 0.8 | 19.2 | 0.5 | 27.0 |
| 3000 | 14.6 | -24.5 | -11.1 | -8.1 | 1.4 | 0.9 | 18.9 | 0.5 | 27.5 |
| 3100 | 14.4 | -24.2 | -11.3 | -8.1 | 1.3 | 0.9 | 19.3 | 0.5 | 27.7 |
| 3200 | 14.2 | -23.9 | -11.3 | -8.2 | 1.3 | 0.9 | 19.6 | 0.6 | 27.4 |
| 3300 | 14.0 | -23.7 | -11.3 | -8.5 | 1.4 | 0.9 | 19.2 | 0.6 | 27.3 |
| 3400 | 13.7 | -23.5 | -11.2 | -8.7 | 1.4 | 0.9 | 19.2 | 0.7 | 27.3 |
| 3500 | 13.5 | -23.3 | -11.1 | -8.9 | 1.4 | 0.9 | 19.2 | 0.7 | 27.6 |
| 3600 | 13.3 | -23.1 | -10.8 | -9.1 | 1.4 | 0.9 | 19.4 | 0.8 | 27.2 |
| 3700 | 12.9 | -23.1 | -9.9 | -9.7 | 1.4 | 1.0 | 19.4 | 0.8 | 27.4 |
| 3800 | 12.9 | -22.6 | -10.1 | -10.1 | 1.4 | 1.0 | 19.4 | 0.8 | 27.1 |
| 3900 | 12.8 | -22.4 | -9.9 | -10.5 | 1.4 | 1.0 | 19.2 | 0.7 | 27.1 |
| 4000 | 12.6 | -22.2 | -9.7 | -10.8 | 1.4 | 1.0 | 18.5 | 0.8 | 27.5 |
| 5000 | 10.6 | -21.0 | -7.6 | -11.7 | 1.4 | 1.1 | 18.7 | 1.3 | 26.2 |

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: $V_{DD} = +3.3\text{ V}$, $V_{SHUTDOWN} = 0\text{ V}$, $I_{DD} = 35\text{ mA}$, $I_{SHUTDOWN} = 0.0243\text{ }\mu\text{A}$ @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | Noise Figure | IP-3 Output $P_{OUT} = +4$ |
|-------|------|-----------|-------------------|--------------------|-----------|---------|------------------|--------------|----------------------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | | | (dBm) | (dB) | (dBm) |
| 300 | 28.9 | -38.1 | -2.6 | -4.7 | 0.8 | 0.8 | 19.5 | 0.2 | 27.6 |
| 400 | 28.1 | -36.8 | -3.3 | -5.1 | 0.8 | 0.8 | 19.6 | 0.2 | 27.5 |
| 500 | 27.3 | -35.5 | -3.9 | -5.3 | 0.8 | 0.8 | 19.1 | 0.2 | 27.7 |
| 550 | 26.9 | -35.3 | -4.2 | -5.5 | 0.8 | 0.8 | 19.3 | 0.3 | 27.6 |
| 600 | 26.4 | -34.6 | -4.6 | -5.6 | 0.8 | 0.8 | 18.9 | 0.2 | 28.1 |
| 650 | 26.0 | -33.9 | -4.9 | -5.8 | 0.8 | 0.8 | 19.5 | 0.3 | 27.8 |
| 700 | 25.6 | -33.9 | -5.2 | -5.9 | 0.9 | 0.8 | 19.4 | 0.3 | 27.7 |
| 750 | 25.2 | -33.5 | -5.5 | -6.0 | 0.9 | 0.8 | 19.5 | 0.3 | 27.6 |
| 800 | 24.8 | -33.1 | -5.8 | -6.1 | 0.9 | 0.8 | 19.2 | 0.3 | 28.1 |
| 850 | 24.4 | -32.9 | -6.1 | -6.2 | 0.9 | 0.8 | 19.2 | 0.3 | 27.8 |
| 900 | 24.0 | -32.4 | -6.4 | -6.2 | 0.9 | 0.8 | 19.2 | 0.3 | 27.9 |
| 950 | 23.7 | -32.1 | -6.6 | -6.3 | 1.0 | 0.8 | 19.2 | 0.3 | 28.1 |
| 1000 | 23.3 | -32.0 | -6.9 | -6.4 | 1.0 | 0.8 | 19.3 | 0.3 | 28.3 |
| 1100 | 22.6 | -31.4 | -7.3 | -6.5 | 1.0 | 0.8 | 19.3 | 0.3 | 28.2 |
| 1200 | 22.0 | -31.1 | -7.7 | -6.6 | 1.1 | 0.8 | 19.4 | 0.3 | 28.2 |
| 1300 | 21.4 | -30.4 | -8.1 | -6.6 | 1.1 | 0.8 | 20.2 | 0.3 | 28.2 |
| 1400 | 20.8 | -30.1 | -8.4 | -6.7 | 1.1 | 0.8 | 19.7 | 0.3 | 28.6 |
| 1500 | 20.3 | -29.7 | -8.8 | -6.7 | 1.1 | 0.8 | 20.3 | 0.3 | 28.0 |
| 1600 | 19.8 | -29.3 | -9.1 | -6.7 | 1.2 | 0.8 | 20.0 | 0.3 | 28.7 |
| 1700 | 19.3 | -29.0 | -9.4 | -6.8 | 1.2 | 0.8 | 20.3 | 0.3 | 28.6 |
| 1800 | 18.9 | -28.4 | -9.7 | -6.7 | 1.2 | 0.8 | 20.4 | 0.3 | 28.4 |
| 1900 | 18.5 | -28.2 | -9.9 | -6.7 | 1.2 | 0.8 | 20.4 | 0.4 | 28.7 |
| 2000 | 18.0 | -27.9 | -10.2 | -6.8 | 1.2 | 0.8 | 19.7 | 0.4 | 28.8 |
| 2100 | 17.7 | -27.6 | -10.4 | -6.8 | 1.3 | 0.8 | 19.9 | 0.4 | 28.6 |
| 2200 | 17.3 | -27.2 | -10.7 | -6.8 | 1.3 | 0.8 | 20.2 | 0.4 | 28.8 |
| 2300 | 16.9 | -26.9 | -10.9 | -6.8 | 1.3 | 0.8 | 19.8 | 0.4 | 29.0 |
| 2400 | 16.6 | -26.6 | -11.1 | -6.8 | 1.3 | 0.8 | 20.4 | 0.4 | 28.7 |
| 2500 | 16.3 | -26.3 | -11.3 | -6.9 | 1.3 | 0.8 | 20.1 | 0.4 | 29.1 |
| 2600 | 16.0 | -26.0 | -11.4 | -7.0 | 1.3 | 0.8 | 20.4 | 0.4 | 28.8 |
| 2700 | 15.7 | -25.7 | -11.6 | -7.1 | 1.3 | 0.8 | 20.0 | 0.4 | 28.8 |
| 2800 | 15.4 | -25.4 | -11.7 | -7.1 | 1.3 | 0.8 | 20.7 | 0.5 | 28.7 |
| 2900 | 15.1 | -25.2 | -11.7 | -7.3 | 1.3 | 0.8 | 20.3 | 0.5 | 29.0 |
| 3000 | 14.9 | -24.9 | -11.7 | -7.8 | 1.4 | 0.8 | 20.0 | 0.4 | 29.5 |
| 3100 | 14.7 | -24.4 | -11.8 | -7.8 | 1.3 | 0.8 | 20.4 | 0.5 | 29.6 |
| 3200 | 14.5 | -24.2 | -11.8 | -7.9 | 1.3 | 0.8 | 20.6 | 0.5 | 29.3 |
| 3300 | 14.3 | -24.0 | -11.8 | -8.1 | 1.3 | 0.9 | 20.3 | 0.5 | 29.2 |
| 3400 | 14.1 | -23.8 | -11.7 | -8.3 | 1.4 | 0.9 | 20.3 | 0.6 | 29.2 |
| 3500 | 13.9 | -23.5 | -11.6 | -8.5 | 1.4 | 0.9 | 20.3 | 0.7 | 29.5 |
| 3600 | 13.6 | -23.3 | -11.3 | -8.7 | 1.4 | 0.9 | 20.6 | 0.8 | 29.1 |
| 3700 | 13.3 | -23.3 | -10.3 | -9.3 | 1.4 | 0.9 | 20.5 | 0.8 | 29.3 |
| 3800 | 13.3 | -22.9 | -10.5 | -9.7 | 1.4 | 0.9 | 20.5 | 0.8 | 28.9 |
| 3900 | 13.1 | -22.6 | -10.3 | -10.0 | 1.4 | 0.9 | 20.3 | 0.8 | 28.8 |
| 4000 | 12.9 | -22.5 | -10.1 | -10.4 | 1.4 | 1.0 | 19.6 | 0.8 | 29.1 |
| 5000 | 11.0 | -21.2 | -7.8 | -11.5 | 1.4 | 1.1 | 19.7 | 1.2 | 27.8 |

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: $V_{DD} = +4.75\text{ V}$, $V_{SHUTDOWN} = 0\text{ V}$, $I_{DD} = 57\text{ mA}$, $I_{SHUTDOWN} = 0.0306\text{ }\mu\text{A}$ @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | Noise Figure | IP-3 Output $P_{OUT} = +4$ |
|-------|------|-----------|-------------------|--------------------|-----------|---------|------------------|--------------|----------------------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | | | (dBm) | (dB) | (dBm) |
| 300 | 30.4 | -39.8 | -3.1 | -4.7 | 0.9 | 0.8 | 22.8 | 0.2 | 33.3 |
| 400 | 29.4 | -38.8 | -3.9 | -5.0 | 0.9 | 0.8 | 23.0 | 0.2 | 33.0 |
| 500 | 28.6 | -37.2 | -4.6 | -5.2 | 0.9 | 0.8 | 22.5 | 0.2 | 33.4 |
| 550 | 28.1 | -36.8 | -5.0 | -5.4 | 0.9 | 0.8 | 22.7 | 0.2 | 32.9 |
| 600 | 27.6 | -36.2 | -5.4 | -5.4 | 0.9 | 0.8 | 22.4 | 0.2 | 34.2 |
| 650 | 27.1 | -36.1 | -5.8 | -5.5 | 1.0 | 0.8 | 22.9 | 0.2 | 33.9 |
| 700 | 26.7 | -35.8 | -6.1 | -5.6 | 1.0 | 0.8 | 22.9 | 0.2 | 33.6 |
| 750 | 26.2 | -35.2 | -6.4 | -5.7 | 1.0 | 0.8 | 23.1 | 0.3 | 33.3 |
| 800 | 25.8 | -34.9 | -6.7 | -5.8 | 1.0 | 0.8 | 22.8 | 0.3 | 34.0 |
| 850 | 25.4 | -34.5 | -7.0 | -5.8 | 1.0 | 0.8 | 22.6 | 0.2 | 33.5 |
| 900 | 25.0 | -34.4 | -7.3 | -5.8 | 1.1 | 0.8 | 22.8 | 0.2 | 33.8 |
| 950 | 24.7 | -33.9 | -7.6 | -5.9 | 1.1 | 0.8 | 22.7 | 0.2 | 34.2 |
| 1000 | 24.3 | -33.6 | -7.9 | -5.9 | 1.1 | 0.8 | 22.7 | 0.2 | 34.1 |
| 1100 | 23.6 | -32.9 | -8.3 | -5.9 | 1.1 | 0.8 | 22.8 | 0.3 | 34.6 |
| 1200 | 22.9 | -32.4 | -8.8 | -6.0 | 1.1 | 0.8 | 22.9 | 0.3 | 34.2 |
| 1300 | 22.3 | -32.0 | -9.2 | -6.0 | 1.2 | 0.8 | 23.7 | 0.3 | 34.2 |
| 1400 | 21.7 | -31.4 | -9.6 | -6.0 | 1.2 | 0.8 | 23.2 | 0.3 | 34.7 |
| 1500 | 21.2 | -31.0 | -10.0 | -6.0 | 1.2 | 0.8 | 23.7 | 0.3 | 34.1 |
| 1600 | 20.6 | -30.6 | -10.3 | -6.0 | 1.2 | 0.8 | 23.4 | 0.3 | 34.5 |
| 1700 | 20.2 | -30.3 | -10.6 | -6.0 | 1.2 | 0.8 | 23.8 | 0.3 | 34.5 |
| 1800 | 19.7 | -29.8 | -10.9 | -6.0 | 1.2 | 0.7 | 23.8 | 0.3 | 34.5 |
| 1900 | 19.3 | -29.4 | -11.2 | -6.0 | 1.3 | 0.7 | 23.8 | 0.3 | 35.1 |
| 2000 | 18.8 | -29.1 | -11.5 | -6.0 | 1.3 | 0.7 | 23.2 | 0.3 | 35.4 |
| 2100 | 18.5 | -28.7 | -11.7 | -6.0 | 1.3 | 0.7 | 23.4 | 0.4 | 35.3 |
| 2200 | 18.1 | -28.4 | -12.0 | -6.0 | 1.3 | 0.7 | 23.8 | 0.4 | 35.3 |
| 2300 | 17.7 | -28.0 | -12.2 | -6.0 | 1.3 | 0.7 | 23.3 | 0.4 | 35.9 |
| 2400 | 17.4 | -27.6 | -12.4 | -6.0 | 1.3 | 0.7 | 23.9 | 0.4 | 35.5 |
| 2500 | 17.1 | -27.5 | -12.6 | -6.0 | 1.3 | 0.7 | 23.7 | 0.4 | 35.8 |
| 2600 | 16.7 | -27.1 | -12.8 | -6.1 | 1.3 | 0.7 | 23.8 | 0.4 | 35.7 |
| 2700 | 16.5 | -26.8 | -13.0 | -6.2 | 1.3 | 0.7 | 23.4 | 0.4 | 36.3 |
| 2800 | 16.2 | -26.5 | -13.1 | -6.2 | 1.3 | 0.7 | 23.9 | 0.4 | 35.6 |
| 2900 | 15.8 | -26.4 | -13.1 | -6.4 | 1.4 | 0.8 | 23.6 | 0.5 | 35.8 |
| 3000 | 15.6 | -25.9 | -13.1 | -6.8 | 1.4 | 0.8 | 23.4 | 0.4 | 36.9 |
| 3100 | 15.5 | -25.5 | -13.3 | -6.8 | 1.3 | 0.8 | 23.7 | 0.4 | 36.8 |
| 3200 | 15.3 | -25.3 | -13.3 | -6.8 | 1.3 | 0.8 | 23.9 | 0.5 | 36.9 |
| 3300 | 15.1 | -25.0 | -13.2 | -7.0 | 1.3 | 0.8 | 23.7 | 0.5 | 36.7 |
| 3400 | 14.9 | -24.7 | -13.1 | -7.2 | 1.3 | 0.8 | 23.7 | 0.6 | 37.6 |
| 3500 | 14.6 | -24.5 | -13.0 | -7.4 | 1.3 | 0.8 | 23.8 | 0.7 | 36.5 |
| 3600 | 14.4 | -24.3 | -12.6 | -7.5 | 1.4 | 0.8 | 23.9 | 0.8 | 36.5 |
| 3700 | 14.1 | -24.2 | -11.5 | -8.0 | 1.4 | 0.9 | 23.9 | 0.7 | 38.5 |
| 3800 | 14.1 | -23.8 | -11.8 | -8.4 | 1.4 | 0.9 | 23.9 | 0.7 | 37.2 |
| 3900 | 14.0 | -23.5 | -11.5 | -8.6 | 1.3 | 0.9 | 23.6 | 0.7 | 37.2 |
| 4000 | 13.8 | -23.3 | -11.2 | -8.9 | 1.3 | 0.9 | 23.1 | 0.7 | 37.8 |
| 5000 | 11.9 | -21.9 | -8.4 | -10.5 | 1.4 | 1.0 | 23.0 | 1.2 | 36.6 |

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: $V_{DD} = +5\text{ V}$, $V_{SHUTDOWN} = 0\text{ V}$, $I_{DD} = 61\text{ mA}$, $I_{SHUTDOWN} = 0.0276\text{ }\mu\text{A}$ @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | Noise Figure | IP-3 Output $P_{OUT} = +4$ |
|-------|------|-----------|-------------------|--------------------|-----------|---------|------------------|--------------|----------------------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | | | (dBm) | (dB) | (dBm) |
| 300 | 30.6 | -39.9 | -3.1 | -4.8 | 0.9 | 0.8 | 23.2 | 0.2 | 34.1 |
| 400 | 29.6 | -38.9 | -3.9 | -5.0 | 0.9 | 0.8 | 23.4 | 0.2 | 33.5 |
| 500 | 28.7 | -37.3 | -4.7 | -5.2 | 0.9 | 0.7 | 22.9 | 0.2 | 33.8 |
| 550 | 28.2 | -37.1 | -5.1 | -5.4 | 0.9 | 0.8 | 23.2 | 0.2 | 34.2 |
| 600 | 27.7 | -36.9 | -5.5 | -5.4 | 1.0 | 0.8 | 22.8 | 0.2 | 34.9 |
| 650 | 27.3 | -36.1 | -5.9 | -5.5 | 1.0 | 0.8 | 23.3 | 0.3 | 34.2 |
| 700 | 26.8 | -35.7 | -6.2 | -5.6 | 1.0 | 0.8 | 23.3 | 0.2 | 33.7 |
| 750 | 26.4 | -35.5 | -6.5 | -5.6 | 1.0 | 0.8 | 23.5 | 0.3 | 34.1 |
| 800 | 25.9 | -35.1 | -6.8 | -5.7 | 1.0 | 0.8 | 23.2 | 0.3 | 34.7 |
| 850 | 25.5 | -34.8 | -7.1 | -5.8 | 1.1 | 0.8 | 23.2 | 0.3 | 34.6 |
| 900 | 25.1 | -34.3 | -7.4 | -5.8 | 1.1 | 0.8 | 23.3 | 0.3 | 34.0 |
| 950 | 24.8 | -34.1 | -7.7 | -5.8 | 1.1 | 0.8 | 23.2 | 0.2 | 34.7 |
| 1000 | 24.4 | -33.7 | -8.0 | -5.9 | 1.1 | 0.8 | 23.3 | 0.3 | 34.8 |
| 1100 | 23.7 | -33.1 | -8.4 | -5.9 | 1.1 | 0.8 | 23.3 | 0.3 | 35.0 |
| 1200 | 23.0 | -32.7 | -8.9 | -6.0 | 1.1 | 0.8 | 23.4 | 0.3 | 35.2 |
| 1300 | 22.4 | -32.1 | -9.3 | -6.0 | 1.2 | 0.8 | 24.1 | 0.3 | 34.2 |
| 1400 | 21.8 | -31.6 | -9.7 | -6.0 | 1.2 | 0.8 | 23.6 | 0.2 | 35.4 |
| 1500 | 21.3 | -31.2 | -10.1 | -5.9 | 1.2 | 0.8 | 24.2 | 0.3 | 35.2 |
| 1600 | 20.7 | -30.8 | -10.4 | -6.0 | 1.2 | 0.7 | 24.0 | 0.3 | 35.3 |
| 1700 | 20.2 | -30.3 | -10.7 | -6.0 | 1.2 | 0.7 | 24.2 | 0.3 | 35.6 |
| 1800 | 19.8 | -29.9 | -11.0 | -5.9 | 1.2 | 0.7 | 24.3 | 0.3 | 35.3 |
| 1900 | 19.4 | -29.5 | -11.3 | -5.9 | 1.2 | 0.7 | 24.3 | 0.4 | 35.5 |
| 2000 | 18.9 | -29.2 | -11.6 | -5.9 | 1.3 | 0.7 | 23.6 | 0.4 | 36.7 |
| 2100 | 18.5 | -28.9 | -11.8 | -5.9 | 1.3 | 0.7 | 23.9 | 0.4 | 36.4 |
| 2200 | 18.1 | -28.5 | -12.1 | -6.0 | 1.3 | 0.7 | 24.2 | 0.4 | 36.0 |
| 2300 | 17.8 | -28.2 | -12.3 | -5.9 | 1.3 | 0.7 | 23.8 | 0.4 | 36.4 |
| 2400 | 17.5 | -27.8 | -12.5 | -5.9 | 1.3 | 0.7 | 24.3 | 0.4 | 36.5 |
| 2500 | 17.1 | -27.6 | -12.8 | -6.0 | 1.3 | 0.7 | 24.1 | 0.4 | 36.3 |
| 2600 | 16.8 | -27.2 | -12.9 | -6.1 | 1.3 | 0.7 | 24.2 | 0.4 | 35.9 |
| 2700 | 16.5 | -26.9 | -13.1 | -6.1 | 1.3 | 0.7 | 23.8 | 0.4 | 36.8 |
| 2800 | 16.2 | -26.6 | -13.2 | -6.2 | 1.3 | 0.7 | 24.3 | 0.4 | 36.3 |
| 2900 | 15.9 | -26.3 | -13.2 | -6.4 | 1.4 | 0.8 | 24.0 | 0.4 | 36.5 |
| 3000 | 15.7 | -26.0 | -13.3 | -6.7 | 1.4 | 0.8 | 23.9 | 0.4 | 37.7 |
| 3100 | 15.6 | -25.6 | -13.4 | -6.7 | 1.3 | 0.8 | 24.1 | 0.4 | 37.5 |
| 3200 | 15.4 | -25.3 | -13.4 | -6.7 | 1.3 | 0.8 | 24.3 | 0.5 | 37.4 |
| 3300 | 15.1 | -25.1 | -13.4 | -7.0 | 1.3 | 0.8 | 24.1 | 0.5 | 37.6 |
| 3400 | 14.9 | -24.8 | -13.3 | -7.2 | 1.3 | 0.8 | 24.1 | 0.6 | 37.9 |
| 3500 | 14.7 | -24.6 | -13.1 | -7.3 | 1.3 | 0.8 | 24.1 | 0.6 | 37.3 |
| 3600 | 14.4 | -24.4 | -12.7 | -7.4 | 1.4 | 0.8 | 24.4 | 0.8 | 38.4 |
| 3700 | 14.1 | -24.3 | -11.6 | -7.9 | 1.4 | 0.9 | 24.3 | 0.7 | 38.8 |
| 3800 | 14.2 | -23.9 | -11.9 | -8.3 | 1.4 | 0.9 | 24.3 | 0.7 | 37.5 |
| 3900 | 14.0 | -23.6 | -11.6 | -8.5 | 1.3 | 0.9 | 24.1 | 0.7 | 38.1 |
| 4000 | 13.9 | -23.4 | -11.3 | -8.8 | 1.3 | 0.9 | 23.6 | 0.7 | 37.8 |
| 5000 | 12.0 | -21.9 | -8.4 | -10.4 | 1.4 | 1.0 | 23.6 | 1.1 | 38.1 |

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: $V_{DD} = +5.25\text{ V}$, $V_{SHUTDOWN} = 0\text{ V}$, $I_{DD} = 64\text{ mA}$, $I_{SHUTDOWN} = 0.0222\text{ }\mu\text{A}$ @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | Noise Figure | IP-3 Output $P_{OUT} = +4$ |
|-------|------|-----------|-------------------|--------------------|-----------|---------|------------------|--------------|----------------------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | | | (dBm) | (dB) | (dBm) |
| 300 | 30.7 | -40.5 | -3.2 | -4.8 | 0.9 | 0.8 | 23.6 | 0.2 | 34.5 |
| 400 | 29.7 | -38.4 | -4.0 | -5.0 | 0.9 | 0.7 | 23.8 | 0.3 | 34.2 |
| 500 | 28.8 | -38.1 | -4.8 | -5.2 | 1.0 | 0.8 | 23.4 | 0.2 | 34.8 |
| 550 | 28.3 | -37.5 | -5.1 | -5.4 | 1.0 | 0.8 | 23.6 | 0.3 | 34.6 |
| 600 | 27.8 | -37.0 | -5.6 | -5.4 | 1.0 | 0.8 | 23.3 | 0.2 | 34.8 |
| 650 | 27.3 | -36.3 | -6.0 | -5.5 | 1.0 | 0.8 | 23.8 | 0.2 | 35.1 |
| 700 | 26.9 | -35.8 | -6.3 | -5.6 | 1.0 | 0.8 | 23.8 | 0.2 | 34.8 |
| 750 | 26.4 | -35.8 | -6.6 | -5.6 | 1.0 | 0.8 | 24.0 | 0.2 | 34.5 |
| 800 | 26.0 | -35.2 | -6.9 | -5.7 | 1.0 | 0.8 | 23.7 | 0.3 | 35.4 |
| 850 | 25.6 | -34.8 | -7.2 | -5.7 | 1.1 | 0.8 | 23.6 | 0.2 | 35.0 |
| 900 | 25.2 | -34.4 | -7.5 | -5.7 | 1.1 | 0.8 | 23.7 | 0.2 | 35.1 |
| 950 | 24.8 | -34.2 | -7.8 | -5.8 | 1.1 | 0.8 | 23.6 | 0.2 | 35.5 |
| 1000 | 24.4 | -33.9 | -8.1 | -5.8 | 1.1 | 0.8 | 23.7 | 0.3 | 35.3 |
| 1100 | 23.7 | -33.2 | -8.5 | -5.8 | 1.1 | 0.8 | 23.7 | 0.3 | 35.3 |
| 1200 | 23.1 | -32.8 | -9.0 | -5.9 | 1.2 | 0.8 | 23.9 | 0.3 | 35.6 |
| 1300 | 22.5 | -32.2 | -9.4 | -5.9 | 1.2 | 0.8 | 24.5 | 0.3 | 35.3 |
| 1400 | 21.9 | -31.7 | -9.8 | -5.9 | 1.2 | 0.7 | 24.1 | 0.3 | 35.8 |
| 1500 | 21.3 | -31.4 | -10.2 | -5.9 | 1.2 | 0.7 | 24.6 | 0.3 | 35.4 |
| 1600 | 20.8 | -30.9 | -10.5 | -5.9 | 1.2 | 0.7 | 24.4 | 0.3 | 35.8 |
| 1700 | 20.3 | -30.4 | -10.9 | -5.9 | 1.2 | 0.7 | 24.7 | 0.3 | 36.1 |
| 1800 | 19.8 | -30.0 | -11.1 | -5.9 | 1.2 | 0.7 | 24.7 | 0.3 | 36.1 |
| 1900 | 19.4 | -29.7 | -11.4 | -5.9 | 1.3 | 0.7 | 24.7 | 0.4 | 36.0 |
| 2000 | 19.0 | -29.3 | -11.7 | -5.9 | 1.3 | 0.7 | 24.1 | 0.4 | 37.1 |
| 2100 | 18.6 | -28.9 | -11.9 | -5.9 | 1.3 | 0.7 | 24.3 | 0.4 | 37.1 |
| 2200 | 18.2 | -28.6 | -12.2 | -5.9 | 1.3 | 0.7 | 24.6 | 0.4 | 37.0 |
| 2300 | 17.8 | -28.2 | -12.4 | -5.9 | 1.3 | 0.7 | 24.3 | 0.4 | 37.7 |
| 2400 | 17.5 | -27.9 | -12.7 | -5.9 | 1.3 | 0.7 | 24.7 | 0.4 | 36.2 |
| 2500 | 17.2 | -27.7 | -12.9 | -5.9 | 1.3 | 0.7 | 24.5 | 0.4 | 36.8 |
| 2600 | 16.9 | -27.3 | -13.0 | -6.0 | 1.3 | 0.7 | 24.6 | 0.4 | 36.7 |
| 2700 | 16.6 | -27.0 | -13.2 | -6.0 | 1.3 | 0.7 | 24.2 | 0.3 | 37.0 |
| 2800 | 16.3 | -26.7 | -13.3 | -6.1 | 1.3 | 0.7 | 24.7 | 0.4 | 37.1 |
| 2900 | 16.0 | -26.6 | -13.3 | -6.2 | 1.4 | 0.8 | 24.4 | 0.4 | 37.1 |
| 3000 | 15.8 | -26.1 | -13.3 | -6.7 | 1.4 | 0.8 | 24.3 | 0.4 | 38.0 |
| 3100 | 15.6 | -25.7 | -13.6 | -6.6 | 1.3 | 0.8 | 24.5 | 0.5 | 38.6 |
| 3200 | 15.4 | -25.5 | -13.6 | -6.7 | 1.3 | 0.8 | 24.7 | 0.4 | 38.3 |
| 3300 | 15.2 | -25.2 | -13.5 | -6.9 | 1.3 | 0.8 | 24.6 | 0.4 | 38.0 |
| 3400 | 15.0 | -25.0 | -13.4 | -7.0 | 1.3 | 0.8 | 24.5 | 0.5 | 39.0 |
| 3500 | 14.8 | -24.7 | -13.2 | -7.2 | 1.3 | 0.8 | 24.6 | 0.6 | 39.3 |
| 3600 | 14.5 | -24.5 | -12.8 | -7.3 | 1.4 | 0.8 | 24.8 | 0.7 | 39.0 |
| 3700 | 14.2 | -24.4 | -11.7 | -7.8 | 1.4 | 0.9 | 24.8 | 0.7 | 39.0 |
| 3800 | 14.2 | -24.0 | -12.0 | -8.2 | 1.4 | 0.9 | 24.7 | 0.7 | 38.6 |
| 3900 | 14.1 | -23.7 | -11.8 | -8.4 | 1.3 | 0.9 | 24.5 | 0.7 | 38.5 |
| 4000 | 13.9 | -23.5 | -11.5 | -8.7 | 1.3 | 0.9 | 24.0 | 0.7 | 38.3 |
| 5000 | 12.1 | -22.0 | -8.5 | -10.3 | 1.4 | 1.0 | 23.9 | 1.1 | 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 V, V_{SHUTDOWN} = 0 V, I_{DD} = 59 mA, I_{SHUTDOWN} = 0.0347 µA @ Temperature = -45°C

| FREQ (MHz) | Gain (dB) | Isolation (dB) | Input Return Loss (dB) | Output Return Loss (dB) | Stability | | 1dB Comp. Output (dBm) | Noise Figure (dB) | IP-3 Output P _{OUT} = +4 (dBm) |
|---------------|--------------|-------------------|---------------------------------|----------------------------------|-----------|---------|---------------------------------|-------------------------|--|
| | | | | | K | Measure | | | |
| 300 | 31.3 | -41.3 | -3.3 | -4.8 | 1.0 | 0.7 | 23.2 | 0.1 | 36.1 |
| 400 | 30.2 | -39.8 | -4.2 | -5.0 | 1.0 | 0.7 | 23.2 | 0.1 | 35.6 |
| 500 | 29.3 | -38.8 | -5.0 | -5.2 | 1.0 | 0.7 | 23.2 | 0.1 | 35.1 |
| 550 | 28.8 | -37.9 | -5.4 | -5.3 | 1.0 | 0.7 | 23.4 | 0.1 | 34.7 |
| 600 | 28.3 | -37.4 | -5.9 | -5.3 | 1.0 | 0.7 | 22.8 | 0.0 | 34.6 |
| 650 | 27.8 | -36.8 | -6.3 | -5.4 | 1.0 | 0.7 | 23.2 | 0.1 | 34.6 |
| 700 | 27.4 | -36.6 | -6.6 | -5.5 | 1.0 | 0.7 | 23.4 | 0.1 | 34.8 |
| 750 | 26.9 | -36.2 | -6.9 | -5.5 | 1.0 | 0.7 | 23.5 | 0.1 | 34.3 |
| 800 | 26.5 | -35.7 | -7.3 | -5.5 | 1.1 | 0.7 | 23.1 | 0.1 | 34.6 |
| 850 | 26.1 | -35.7 | -7.6 | -5.5 | 1.1 | 0.7 | 23.0 | 0.1 | 34.6 |
| 900 | 25.7 | -35.1 | -7.9 | -5.5 | 1.1 | 0.7 | 23.3 | 0.1 | 33.9 |
| 950 | 25.3 | -34.9 | -8.2 | -5.6 | 1.1 | 0.7 | 23.3 | 0.1 | 34.0 |
| 1000 | 24.9 | -34.4 | -8.5 | -5.6 | 1.1 | 0.7 | 23.2 | 0.1 | 34.5 |
| 1100 | 24.2 | -33.8 | -8.9 | -5.6 | 1.1 | 0.7 | 23.2 | 0.1 | 34.3 |
| 1200 | 23.5 | -33.3 | -9.4 | -5.6 | 1.2 | 0.7 | 23.4 | 0.1 | 34.2 |
| 1300 | 22.9 | -32.7 | -9.8 | -5.6 | 1.2 | 0.7 | 24.0 | 0.1 | 34.3 |
| 1400 | 22.3 | -32.2 | -10.2 | -5.6 | 1.2 | 0.7 | 23.6 | 0.1 | 34.2 |
| 1500 | 21.7 | -31.7 | -10.5 | -5.6 | 1.2 | 0.7 | 24.2 | 0.1 | 33.9 |
| 1600 | 21.2 | -31.3 | -10.9 | -5.6 | 1.2 | 0.7 | 24.0 | 0.1 | 33.9 |
| 1700 | 20.7 | -30.9 | -11.3 | -5.6 | 1.2 | 0.7 | 24.3 | 0.1 | 34.1 |
| 1800 | 20.3 | -30.4 | -11.6 | -5.5 | 1.2 | 0.7 | 24.3 | 0.1 | 34.2 |
| 1900 | 19.8 | -30.1 | -11.9 | -5.5 | 1.2 | 0.7 | 24.4 | 0.2 | 34.0 |
| 2000 | 19.4 | -29.7 | -12.2 | -5.5 | 1.3 | 0.7 | 23.7 | 0.2 | 34.1 |
| 2100 | 19.0 | -29.4 | -12.5 | -5.5 | 1.3 | 0.7 | 24.0 | 0.2 | 33.6 |
| 2200 | 18.6 | -29.0 | -12.8 | -5.5 | 1.3 | 0.7 | 24.4 | 0.2 | 33.9 |
| 2300 | 18.3 | -28.6 | -13.0 | -5.5 | 1.3 | 0.7 | 24.0 | 0.1 | 34.0 |
| 2400 | 17.9 | -28.2 | -13.2 | -5.5 | 1.3 | 0.7 | 24.4 | 0.1 | 33.9 |
| 2500 | 17.6 | -28.0 | -13.4 | -5.5 | 1.3 | 0.7 | 24.2 | 0.1 | 33.8 |
| 2600 | 17.3 | -27.7 | -13.5 | -5.7 | 1.3 | 0.7 | 24.4 | 0.1 | 33.8 |
| 2700 | 17.0 | -27.4 | -13.7 | -5.7 | 1.3 | 0.7 | 23.8 | 0.1 | 33.7 |
| 2800 | 16.6 | -27.0 | -13.7 | -5.8 | 1.3 | 0.7 | 24.4 | 0.1 | 33.5 |
| 2900 | 16.4 | -26.7 | -13.7 | -6.2 | 1.3 | 0.7 | 24.3 | 0.1 | 33.3 |
| 3000 | 16.3 | -26.3 | -14.0 | -6.1 | 1.3 | 0.7 | 24.1 | 0.1 | 33.4 |
| 3100 | 16.0 | -26.0 | -14.0 | -6.2 | 1.3 | 0.7 | 24.3 | 0.2 | 33.9 |
| 3200 | 15.8 | -25.7 | -13.9 | -6.4 | 1.3 | 0.7 | 24.4 | 0.2 | 33.8 |
| 3300 | 15.6 | -25.5 | -13.9 | -6.6 | 1.3 | 0.8 | 24.3 | 0.2 | 34.0 |
| 3400 | 15.4 | -25.1 | -13.7 | -6.7 | 1.3 | 0.8 | 24.3 | 0.2 | 33.0 |
| 3500 | 15.2 | -24.9 | -13.6 | -6.8 | 1.3 | 0.8 | 24.3 | 0.3 | 33.5 |
| 3600 | 15.0 | -24.7 | -13.2 | -7.0 | 1.3 | 0.8 | 24.5 | 0.3 | 33.3 |
| 3700 | 14.5 | -24.8 | -11.7 | -7.3 | 1.3 | 0.8 | 24.4 | 0.4 | 33.2 |
| 3800 | 14.6 | -24.2 | -12.2 | -7.7 | 1.3 | 0.8 | 24.4 | 0.4 | 33.0 |
| 3900 | 14.5 | -23.9 | -12.0 | -8.0 | 1.3 | 0.8 | 24.2 | 0.3 | 33.2 |
| 4000 | 14.4 | -23.7 | -11.7 | -8.2 | 1.3 | 0.9 | 23.7 | 0.3 | 33.2 |
| 5000 | 12.5 | -22.1 | -8.7 | -9.7 | 1.3 | 1.0 | 23.8 | 0.7 | 32.1 |

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 V, V_{SHUTDOWN} = 0 V, I_{DD} = 60 mA, I_{SHUTDOWN} = 0.0247 µA @ Temperature = +105°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | 1dB Comp. Output | Noise Figure | IP-3 Output P _{OUT} = +4 |
|-------|------|-----------|-------------------|--------------------|-----------|---------|------------------|--------------|-----------------------------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | | | (dBm) | (dB) | (dBm) |
| 300 | 29.8 | -39.6 | -2.9 | -4.5 | 0.9 | 0.7 | 22.5 | 0.3 | 33.8 |
| 400 | 28.9 | -38.4 | -3.6 | -4.7 | 0.9 | 0.7 | 22.6 | 0.3 | 33.2 |
| 500 | 28.0 | -36.9 | -4.3 | -5.0 | 0.9 | 0.7 | 22.5 | 0.3 | 33.7 |
| 550 | 27.6 | -36.6 | -4.7 | -5.1 | 0.9 | 0.8 | 22.7 | 0.4 | 33.1 |
| 600 | 27.1 | -36.4 | -5.1 | -5.2 | 0.9 | 0.8 | 22.3 | 0.4 | 34.2 |
| 650 | 26.7 | -35.9 | -5.4 | -5.3 | 0.9 | 0.8 | 22.7 | 0.4 | 33.5 |
| 700 | 26.2 | -35.4 | -5.7 | -5.4 | 1.0 | 0.8 | 22.7 | 0.4 | 33.4 |
| 750 | 25.8 | -35.2 | -6.1 | -5.4 | 1.0 | 0.8 | 22.8 | 0.4 | 33.4 |
| 800 | 25.4 | -34.8 | -6.4 | -5.5 | 1.0 | 0.8 | 22.6 | 0.5 | 34.0 |
| 850 | 25.0 | -34.5 | -6.7 | -5.6 | 1.0 | 0.8 | 22.6 | 0.4 | 33.7 |
| 900 | 24.6 | -34.2 | -6.9 | -5.6 | 1.0 | 0.8 | 22.7 | 0.4 | 33.9 |
| 950 | 24.3 | -34.0 | -7.2 | -5.7 | 1.1 | 0.8 | 22.8 | 0.4 | 34.0 |
| 1000 | 23.9 | -33.5 | -7.5 | -5.7 | 1.1 | 0.8 | 22.7 | 0.4 | 34.1 |
| 1100 | 23.2 | -33.0 | -7.9 | -5.8 | 1.1 | 0.8 | 22.7 | 0.5 | 34.2 |
| 1200 | 22.5 | -32.6 | -8.4 | -5.8 | 1.2 | 0.8 | 22.8 | 0.5 | 34.4 |
| 1300 | 21.9 | -32.1 | -8.8 | -5.9 | 1.2 | 0.8 | 23.2 | 0.5 | 33.9 |
| 1400 | 21.4 | -31.6 | -9.1 | -5.9 | 1.2 | 0.8 | 23.0 | 0.5 | 34.3 |
| 1500 | 20.8 | -31.1 | -9.5 | -5.9 | 1.2 | 0.8 | 23.2 | 0.5 | 34.2 |
| 1600 | 20.3 | -30.7 | -9.8 | -5.9 | 1.2 | 0.8 | 23.2 | 0.5 | 34.7 |
| 1700 | 19.8 | -30.4 | -10.1 | -5.9 | 1.3 | 0.8 | 23.3 | 0.5 | 34.5 |
| 1800 | 19.4 | -30.0 | -10.4 | -5.9 | 1.3 | 0.8 | 23.3 | 0.5 | 34.6 |
| 1900 | 18.9 | -29.6 | -10.6 | -5.9 | 1.3 | 0.8 | 23.3 | 0.6 | 35.0 |
| 2000 | 18.5 | -29.4 | -10.9 | -5.9 | 1.3 | 0.8 | 22.8 | 0.6 | 35.4 |
| 2100 | 18.1 | -28.8 | -11.1 | -5.9 | 1.3 | 0.8 | 23.0 | 0.6 | 35.7 |
| 2200 | 17.7 | -28.7 | -11.4 | -6.0 | 1.4 | 0.8 | 23.2 | 0.6 | 35.7 |
| 2300 | 17.4 | -28.2 | -11.6 | -5.9 | 1.3 | 0.8 | 23.1 | 0.6 | 35.6 |
| 2400 | 17.0 | -27.9 | -11.8 | -5.9 | 1.3 | 0.7 | 23.2 | 0.7 | 35.4 |
| 2500 | 16.7 | -27.6 | -11.9 | -5.9 | 1.4 | 0.8 | 23.1 | 0.7 | 35.6 |
| 2600 | 16.4 | -27.3 | -12.0 | -6.0 | 1.4 | 0.8 | 23.1 | 0.7 | 35.7 |
| 2700 | 16.1 | -27.1 | -12.2 | -6.1 | 1.4 | 0.8 | 22.8 | 0.7 | 35.6 |
| 2800 | 15.7 | -26.9 | -12.2 | -6.2 | 1.4 | 0.8 | 23.2 | 0.7 | 35.5 |
| 2900 | 15.6 | -26.4 | -12.4 | -6.4 | 1.4 | 0.8 | 23.1 | 0.7 | 36.0 |
| 3000 | 15.3 | -26.2 | -12.6 | -6.4 | 1.4 | 0.8 | 23.0 | 0.7 | 36.3 |
| 3100 | 15.1 | -25.8 | -12.7 | -6.6 | 1.4 | 0.8 | 23.1 | 0.7 | 36.3 |
| 3200 | 14.9 | -25.4 | -12.7 | -6.6 | 1.4 | 0.8 | 23.3 | 0.8 | 36.5 |
| 3300 | 14.7 | -25.3 | -12.7 | -6.8 | 1.4 | 0.8 | 23.2 | 0.8 | 36.2 |
| 3400 | 14.5 | -25.0 | -12.6 | -7.0 | 1.4 | 0.8 | 23.3 | 0.9 | 36.4 |
| 3500 | 14.3 | -24.7 | -12.5 | -7.2 | 1.4 | 0.8 | 23.3 | 0.9 | 36.8 |
| 3600 | 14.0 | -24.6 | -12.1 | -7.3 | 1.4 | 0.8 | 23.5 | 1.0 | 36.6 |
| 3700 | 13.7 | -24.4 | -11.2 | -7.8 | 1.4 | 0.9 | 23.4 | 1.1 | 37.9 |
| 3800 | 13.7 | -24.0 | -11.4 | -8.1 | 1.4 | 0.9 | 23.4 | 1.1 | 36.8 |
| 3900 | 13.6 | -23.8 | -11.1 | -8.4 | 1.4 | 0.9 | 23.2 | 1.0 | 37.4 |
| 4000 | 13.4 | -23.6 | -10.8 | -8.8 | 1.4 | 0.9 | 22.9 | 1.1 | 37.7 |
| 5000 | 11.5 | -22.1 | -8.1 | -10.2 | 1.4 | 1.0 | 22.8 | 1.6 | 38.0 |

Typical Performance Data on 1900-2700 MHz Matching Test Board

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: $V_{DD} = +5\text{ V}$, $V_{SHUTDOWN} = 0\text{ V}$, $I_{DD} = 61\text{ mA}$, $I_{SHUTDOWN} = 0.0276\text{ }\mu\text{A}$ @ Temperature = +25°C

| FREQ (MHz) | Gain (dB) | Isolation (dB) | Input Return Loss (dB) | Output Return Loss (dB) | Stability | | 1dB Comp. Output (dBm) | Noise Figure (dB) | IP-3 Output P _{OUT} = +4 (dBm) |
|---------------|--------------|-------------------|---------------------------------|----------------------------------|-----------|---------|---------------------------------|-------------------------|--|
| | | | | | K | Measure | | | |
| 300 | -15.4 | -60.9 | -0.3 | -0.1 | 7.2 | 0.1 | -4.2 | 10.0 | 7.7 |
| 400 | -7.6 | -61.9 | -0.4 | -0.2 | 6.6 | 0.1 | -2.2 | 6.2 | 10.7 |
| 500 | -0.5 | -62.3 | -0.5 | -0.3 | 5.4 | 0.1 | 4.4 | 3.7 | 11.5 |
| 550 | 3.1 | -61.5 | -0.5 | -1.0 | 11.0 | 0.4 | 8.9 | 2.9 | 14.1 |
| 600 | -3.4 | -62.4 | -0.6 | -0.5 | 14.6 | 0.2 | -1.2 | 2.6 | 12.1 |
| 650 | 0.8 | -66.5 | -0.7 | -0.3 | 10.4 | 0.1 | 1.8 | 2.3 | 11.2 |
| 700 | 3.6 | -59.8 | -0.8 | -0.4 | 5.0 | 0.1 | 5.1 | 1.8 | 12.6 |
| 750 | 5.9 | -56.1 | -0.9 | -0.4 | 3.1 | 0.1 | 7.0 | 1.6 | 13.7 |
| 800 | 7.8 | -53.1 | -1.0 | -0.4 | 2.5 | 0.2 | 8.5 | 1.5 | 15.5 |
| 850 | 9.5 | -50.6 | -1.2 | -0.5 | 2.0 | 0.2 | 10.0 | 1.3 | 18.8 |
| 900 | 11.0 | -47.9 | -1.4 | -0.6 | 1.8 | 0.2 | 11.6 | 1.2 | 22.4 |
| 950 | 12.3 | -45.7 | -1.6 | -0.7 | 1.7 | 0.2 | 13.4 | 1.4 | 24.4 |
| 1000 | 13.6 | -44.3 | -1.8 | -0.8 | 1.6 | 0.2 | 14.6 | 0.9 | 25.1 |
| 1100 | 15.8 | -40.8 | -2.4 | -1.1 | 1.5 | 0.3 | 16.7 | 0.8 | 27.3 |
| 1200 | 17.6 | -37.9 | -3.1 | -1.6 | 1.4 | 0.3 | 17.8 | 0.6 | 30.1 |
| 1300 | 18.8 | -35.5 | -4.0 | -2.3 | 1.4 | 0.4 | 18.4 | 0.6 | 30.1 |
| 1400 | 19.8 | -33.5 | -5.1 | -3.1 | 1.3 | 0.5 | 19.2 | 0.5 | 31.1 |
| 1500 | 20.3 | -32.0 | -6.1 | -4.4 | 1.3 | 0.6 | 19.0 | 0.5 | 28.7 |
| 1600 | 20.6 | -30.7 | -7.1 | -5.7 | 1.3 | 0.7 | 19.8 | 0.5 | 32.2 |
| 1700 | 20.6 | -29.8 | -7.9 | -7.3 | 1.3 | 0.7 | 20.2 | 0.5 | 34.5 |
| 1800 | 20.4 | -29.1 | -8.6 | -8.9 | 1.3 | 0.8 | 20.0 | 0.5 | 32.5 |
| 1900 | 20.2 | -28.5 | -9.1 | -10.3 | 1.3 | 0.8 | 20.7 | 0.4 | 36.0 |
| 2000 | 19.9 | -28.0 | -9.6 | -11.5 | 1.3 | 0.9 | 20.5 | 0.5 | 34.6 |
| 2100 | 19.6 | -27.6 | -10.0 | -12.1 | 1.3 | 0.9 | 20.5 | 0.5 | 34.9 |
| 2200 | 19.2 | -27.3 | -10.4 | -12.3 | 1.3 | 0.9 | 20.6 | 0.5 | 37.2 |
| 2300 | 18.7 | -27.0 | -10.6 | -12.0 | 1.3 | 0.9 | 21.4 | 0.5 | 41.2 |
| 2400 | 18.3 | -26.8 | -10.9 | -11.4 | 1.3 | 0.9 | 21.4 | 0.5 | 40.3 |
| 2500 | 17.9 | -26.6 | -11.2 | -10.9 | 1.3 | 0.9 | 21.8 | 0.5 | 40.1 |
| 2600 | 17.5 | -26.3 | -11.4 | -10.5 | 1.3 | 0.9 | 21.8 | 0.5 | 40.4 |
| 2700 | 17.2 | -26.1 | -11.6 | -9.9 | 1.3 | 0.9 | 21.5 | 0.5 | 41.0 |
| 2800 | 16.8 | -26.0 | -11.7 | -9.4 | 1.3 | 0.9 | 22.0 | 0.6 | 39.0 |
| 2900 | 16.4 | -25.7 | -11.7 | -9.2 | 1.3 | 0.9 | 22.3 | 0.6 | 38.8 |
| 3000 | 16.1 | -25.5 | -11.8 | -9.3 | 1.4 | 0.9 | 22.6 | 0.6 | 38.5 |
| 3100 | 15.9 | -25.1 | -12.1 | -8.9 | 1.3 | 0.8 | 22.5 | 0.6 | 38.5 |
| 3200 | 15.7 | -24.9 | -12.2 | -8.5 | 1.3 | 0.8 | 22.4 | 0.7 | 38.7 |
| 3300 | 15.4 | -24.7 | -12.4 | -8.4 | 1.3 | 0.8 | 22.1 | 0.6 | 39.0 |
| 3400 | 15.2 | -24.4 | -12.4 | -8.3 | 1.3 | 0.8 | 21.9 | 0.7 | 39.2 |
| 3500 | 14.9 | -24.3 | -12.5 | -8.2 | 1.3 | 0.8 | 22.7 | 0.7 | 38.4 |
| 3600 | 14.7 | -24.0 | -12.5 | -8.3 | 1.3 | 0.8 | 22.8 | 0.7 | 38.4 |
| 3700 | 14.5 | -23.8 | -12.5 | -8.3 | 1.3 | 0.8 | 22.7 | 0.7 | 40.1 |
| 3800 | 14.4 | -23.6 | -12.4 | -8.4 | 1.3 | 0.8 | 22.5 | 0.8 | 39.0 |
| 3900 | 14.2 | -23.3 | -12.3 | -8.5 | 1.3 | 0.8 | 22.0 | 0.8 | 39.6 |
| 4000 | 14.0 | -23.1 | -12.2 | -8.7 | 1.3 | 0.8 | 22.3 | 0.8 | 39.7 |
| 5000 | 12.5 | -21.4 | -10.0 | -11.5 | 1.3 | 1.0 | 20.8 | 1.1 | 36.6 |