## *Typical Performance Data*

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

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

TEST CONDITIONS: Vd = 5.00V, Id=72.88 mA @ Temperature = +25degC

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output (1) | Noise Figure |
|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 50.0 | 18.55 | 27.77 | 9.05 | 9.35 | 1.41 | 0.79 | 31.29 | 21.49 | 2.88 |
| 100.0 | 17.64 | 24.51 | 10.38 | 11.34 | 1.19 | 0.77 | 31.86 | 21.69 | 2.43 |
| 200.0 | 16.94 | 23.31 | 12.31 | 13.72 | 1.19 | 0.77 | 32.74 | 21.62 | 2.28 |
| 300.0 | 16.60 | 22.86 | 13.27 | 15.04 | 1.20 | 0.77 | 33.23 | 21.51 | 2.31 |
| 500.0 | 16.27 | 22.44 | 13.76 | 15.94 | 1.20 | 0.77 | 33.66 | 21.65 | 2.33 |
| 600.0 | 16.15 | 22.33 | 13.73 | 16.09 | 1.19 | 0.78 | 33.39 | 21.63 | 2.30 |
| 800.0 | 15.91 | 22.02 | 13.45 | 15.91 | 1.18 | 0.78 | 33.87 | 21.66 | 2.38 |
| 1000.0 | 15.65 | 21.77 | 13.03 | 15.51 | 1.17 | 0.79 | 34.05 | 21.65 | 2.39 |
| 1200.0 | 15.37 | 21.41 | 12.65 | 15.15 | 1.15 | 0.80 | 33.49 | 21.78 | 2.41 |
| 1400.0 | 15.09 | 21.10 | 12.23 | 14.87 | 1.13 | 0.80 | 33.80 | 21.84 | 2.45 |
| 1600.0 | 14.79 | 20.75 | 11.92 | 14.59 | 1.12 | 0.81 | 33.58 | 21.65 | 2.46 |
| 1700.0 | 14.64 | 20.59 | 11.81 | 14.47 | 1.11 | 0.81 | 34.00 | 21.80 | 2.43 |
| 1900.0 | 14.33 | 20.20 | 11.56 | 14.30 | 1.09 | 0.81 | 33.65 | 21.73 | 2.44 |
| 2100.0 | 14.03 | 19.88 | 11.39 | 14.16 | 1.09 | 0.81 | 34.27 | 21.82 | 2.46 |
| 2300.0 | 13.75 | 19.49 | 11.33 | 14.07 | 1.08 | 0.81 | 34.34 | 21.81 | 2.47 |
| 2500.0 | 13.46 | 19.17 | 11.32 | 14.03 | 1.07 | 0.81 | 34.38 | 21.80 | 2.46 |
| 2700.0 | 13.20 | 18.79 | 11.34 | 14.05 | 1.06 | 0.80 | 34.38 | 21.89 | 2.60 |
| 2900.0 | 12.94 | 18.46 | 11.43 | 14.17 | 1.06 | 0.80 | 34.55 | 21.84 | 2.60 |
| 3000.0 | 12.83 | 18.26 | 11.47 | 14.18 | 1.06 | 0.79 | 34.33 | 21.92 | 2.56 |
| 3200.0 | 12.59 | 17.89 | 11.60 | 14.35 | 1.05 | 0.79 | 34.75 | 21.92 | 2.62 |
| 3400.0 | 12.36 | 17.55 | 11.81 | 14.67 | 1.05 | 0.78 | 34.62 | 21.95 | 2.58 |
| 3600.0 | 12.07 | 17.30 | 12.21 | 15.28 | 1.06 | 0.77 | 34.82 | 22.01 | 2.76 |
| 3800.0 | 11.93 | 16.89 | 12.12 | 15.15 | 1.04 | 0.76 | 34.82 | 21.96 | 2.76 |
| 4000.0 | 11.70 | 16.52 | 12.10 | 15.47 | 1.04 | 0.75 | 35.22 | 22.00 | 2.80 |
| 4100.0 | 11.60 | 16.37 | 12.13 | 15.56 | 1.04 | 0.74 | 35.50 | 21.91 | 2.81 |
| 4300.0 | 11.38 | 16.08 | 11.92 | 15.64 | 1.04 | 0.74 | 35.65 | 21.99 | 2.86 |
| 4500.0 | 11.16 | 15.82 | 11.60 | 15.56 | 1.04 | 0.73 | 35.41 | 21.83 | 3.02 |
| 4700.0 | 10.96 | 15.51 | 11.04 | 14.87 | 1.03 | 0.72 | 35.59 | 22.02 | 2.99 |
| 4900.0 | 10.71 | 15.26 | 10.37 | 14.11 | 1.02 | 0.72 | 35.32 | 21.84 | 3.08 |
| 5100.0 | 10.44 | 15.06 | 9.62 | 13.27 | 1.01 | 0.71 | 35.13 | 21.68 | 3.16 |
| 5300.0 | 10.17 | 14.89 | 8.96 | 12.45 | 1.01 | 0.71 | 35.47 | 21.55 | 3.26 |
| 5400.0 | 10.03 | 14.80 | 8.59 | 12.00 | 1.01 | 0.71 | 35.44 | 21.82 | 3.29 |
| 5600.0 | 9.73 | 14.64 | 7.89 | 11.08 | 1.00 | 0.71 | 35.62 | 21.51 | 3.32 |
| 5800.0 | 9.41 | 14.52 | 7.25 | 10.20 | 0.99 | 0.70 | 35.41 | 21.24 | 3.41 |
| 6000.0 | 9.12 | 14.40 | 6.63 | 9.45 | 0.98 | 0.70 | 34.96 | 21.12 | 3.45 |
| 6200.0 | 8.80 | 14.31 | 6.13 | 8.77 | 0.97 | 0.70 | 34.73 | 21.15 | 3.53 |
| 6400.0 | 8.47 | 14.21 | 5.68 | 8.16 | 0.97 | 0.70 | 34.55 | 20.93 | 3.53 |
| 6600.0 | 8.13 | 14.15 | 5.20 | 7.61 | 0.96 | 0.70 | 34.10 | 20.97 | 3.71 |
| 6800.0 | 7.80 | 14.10 | 4.83 | 7.11 | 0.95 | 0.69 | 34.48 | 20.87 | 3.85 |
| 7000.0 | 7.45 | 14.06 | 4.49 | 6.63 | 0.94 | 0.69 | 34.14 | 20.51 | 4.29 |

(1) Current increases at P1dB

## Typical Performance Data

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

TEST CONDITIONS: Vd = 5V, Id=73.35 mA @ Temperature = -45degC

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output (1) | Noise Figure |
|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 50.0 | 18.34 | 25.86 | 9.96 | 10.03 | 1.27 | 0.73 | 30.09 | 21.61 | 2.38 |
| 100.0 | 17.50 | 24.35 | 11.44 | 12.33 | 1.21 | 0.78 | 31.05 | 21.76 | 2.04 |
| 200.0 | 16.75 | 22.96 | 13.46 | 14.71 | 1.19 | 0.77 | 32.35 | 21.66 | 1.89 |
| 300.0 | 16.37 | 22.49 | 14.80 | 16.40 | 1.20 | 0.77 | 33.07 | 21.53 | 1.93 |
| 500.0 | 16.02 | 22.07 | 15.74 | 17.93 | 1.20 | 0.77 | 33.59 | 21.64 | 1.97 |
| 600.0 | 15.91 | 21.92 | 15.71 | 18.14 | 1.20 | 0.77 | 33.23 | 21.63 | 1.94 |
| 800.0 | 15.69 | 21.68 | 15.40 | 17.97 | 1.19 | 0.77 | 33.93 | 21.64 | 2.01 |
| 1000.0 | 15.46 | 21.40 | 14.88 | 17.57 | 1.18 | 0.78 | 34.10 | 21.66 | 1.99 |
| 1200.0 | 15.22 | 21.10 | 14.38 | 17.18 | 1.16 | 0.78 | 33.65 | 21.73 | 2.02 |
| 1400.0 | 14.97 | 20.82 | 13.84 | 16.78 | 1.15 | 0.78 | 33.87 | 21.81 | 2.06 |
| 1600.0 | 14.71 | 20.51 | 13.43 | 16.38 | 1.14 | 0.79 | 33.59 | 21.65 | 2.06 |
| 1700.0 | 14.57 | 20.35 | 13.24 | 16.27 | 1.13 | 0.79 | 34.02 | 21.75 | 2.04 |
| 1900.0 | 14.30 | 20.03 | 12.92 | 15.96 | 1.12 | 0.79 | 33.61 | 21.70 | 1.99 |
| 2100.0 | 14.03 | 19.70 | 12.70 | 15.76 | 1.11 | 0.79 | 34.15 | 21.77 | 2.02 |
| 2300.0 | 13.77 | 19.36 | 12.60 | 15.59 | 1.10 | 0.79 | 34.24 | 21.75 | 2.01 |
| 2500.0 | 13.51 | 19.00 | 12.52 | 15.43 | 1.09 | 0.78 | 34.16 | 21.76 | 2.04 |
| 2700.0 | 13.27 | 18.65 | 12.48 | 15.43 | 1.08 | 0.78 | 34.22 | 21.83 | 2.10 |
| 2900.0 | 13.03 | 18.33 | 12.53 | 15.55 | 1.08 | 0.77 | 34.24 | 21.80 | 2.15 |
| 3000.0 | 12.92 | 18.13 | 12.54 | 15.51 | 1.07 | 0.77 | 34.13 | 21.88 | 2.10 |
| 3200.0 | 12.71 | 17.79 | 12.62 | 15.57 | 1.07 | 0.76 | 34.54 | 21.90 | 2.07 |
| 3400.0 | 12.49 | 17.45 | 12.85 | 15.81 | 1.06 | 0.75 | 34.42 | 21.93 | 2.10 |
| 3600.0 | 12.22 | 17.15 | 13.17 | 16.43 | 1.07 | 0.74 | 34.57 | 21.99 | 2.09 |
| 3800.0 | 12.09 | 16.76 | 13.06 | 16.40 | 1.05 | 0.72 | 34.61 | 21.99 | 2.18 |
| 4000.0 | 11.87 | 16.45 | 13.08 | 16.63 | 1.05 | 0.71 | 34.86 | 22.02 | 2.11 |
| 4100.0 | 11.77 | 16.27 | 13.01 | 16.63 | 1.05 | 0.71 | 35.16 | 21.96 | 2.22 |
| 4300.0 | 11.57 | 15.99 | 12.75 | 16.64 | 1.05 | 0.70 | 35.16 | 22.04 | 2.30 |
| 4500.0 | 11.37 | 15.71 | 12.31 | 16.40 | 1.04 | 0.69 | 34.83 | 21.93 | 2.31 |
| 4700.0 | 11.16 | 15.44 | 11.64 | 15.52 | 1.03 | 0.68 | 34.97 | 22.05 | 2.43 |
| 4900.0 | 10.93 | 15.17 | 10.85 | 14.53 | 1.02 | 0.67 | 34.85 | 21.93 | 2.43 |
| 5100.0 | 10.66 | 14.97 | 10.05 | 13.48 | 1.02 | 0.67 | 34.47 | 21.76 | 2.49 |
| 5300.0 | 10.39 | 14.80 | 9.28 | 12.52 | 1.02 | 0.66 | 34.64 | 21.65 | 2.56 |
| 5400.0 | 10.26 | 14.71 | 8.87 | 12.06 | 1.01 | 0.66 | 34.68 | 21.90 | 2.65 |
| 5600.0 | 9.96 | 14.55 | 8.07 | 11.05 | 1.01 | 0.66 | 34.28 | 21.61 | 2.63 |
| 5800.0 | 9.66 | 14.44 | 7.45 | 10.21 | 1.00 | 0.65 | 34.10 | 21.34 | 2.75 |
| 6000.0 | 9.38 | 14.31 | 6.82 | 9.44 | 0.99 | 0.65 | 33.65 | 21.24 | 2.82 |
| 6200.0 | 9.08 | 14.22 | 6.29 | 8.76 | 0.98 | 0.65 | 33.55 | 21.26 | 2.90 |
| 6400.0 | 8.76 | 14.10 | 5.80 | 8.20 | 0.98 | 0.64 | 33.43 | 21.05 | 2.90 |
| 6600.0 | 8.44 | 14.04 | 5.33 | 7.59 | 0.97 | 0.64 | 33.22 | 21.07 | 2.94 |
| 6800.0 | 8.14 | 13.99 | 4.95 | 7.11 | 0.96 | 0.63 | 33.34 | 20.94 | 3.09 |
| 7000.0 | 7.85 | 13.90 | 4.61 | 6.67 | 0.95 | 0.62 | 32.85 | 20.62 | 3.28 |

(1) Current increases at P1dB

## *Typical Performance Data*

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

TEST CONDITIONS: Vd = 5V, Id=73.32 mA @ Temperature = +85degC

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output (1) | Noise Figure |
|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 50.0 | 18.63 | 26.53 | 8.02 | 8.27 | 1.24 | 0.70 | 32.37 | 21.54 | 3.09 |
| 100.0 | 17.73 | 24.66 | 9.60 | 10.67 | 1.18 | 0.76 | 32.52 | 21.65 | 2.72 |
| 200.0 | 17.08 | 23.53 | 11.35 | 12.88 | 1.19 | 0.77 | 33.47 | 21.54 | 2.54 |
| 300.0 | 16.77 | 23.13 | 12.13 | 13.96 | 1.19 | 0.77 | 33.94 | 21.42 | 2.58 |
| 500.0 | 16.44 | 22.78 | 12.32 | 14.44 | 1.19 | 0.78 | 34.39 | 21.57 | 2.59 |
| 600.0 | 16.31 | 22.64 | 12.25 | 14.49 | 1.19 | 0.78 | 33.95 | 21.56 | 2.56 |
| 800.0 | 16.05 | 22.34 | 12.02 | 14.38 | 1.17 | 0.79 | 34.32 | 21.59 | 2.64 |
| 1000.0 | 15.75 | 21.98 | 11.68 | 14.00 | 1.15 | 0.80 | 34.52 | 21.57 | 2.65 |
| 1200.0 | 15.45 | 21.64 | 11.38 | 13.66 | 1.13 | 0.81 | 33.88 | 21.73 | 2.68 |
| 1400.0 | 15.13 | 21.24 | 11.06 | 13.52 | 1.11 | 0.82 | 34.40 | 21.80 | 2.71 |
| 1600.0 | 14.81 | 20.88 | 10.81 | 13.31 | 1.09 | 0.82 | 34.14 | 21.60 | 2.73 |
| 1700.0 | 14.65 | 20.71 | 10.73 | 13.23 | 1.08 | 0.83 | 34.59 | 21.77 | 2.76 |
| 1900.0 | 14.32 | 20.34 | 10.58 | 13.13 | 1.07 | 0.83 | 34.05 | 21.70 | 2.74 |
| 2100.0 | 14.00 | 19.97 | 10.45 | 13.12 | 1.06 | 0.83 | 34.85 | 21.78 | 2.77 |
| 2300.0 | 13.69 | 19.60 | 10.44 | 13.06 | 1.06 | 0.83 | 34.91 | 21.80 | 2.79 |
| 2500.0 | 13.40 | 19.24 | 10.50 | 13.08 | 1.05 | 0.83 | 34.86 | 21.78 | 2.82 |
| 2700.0 | 13.12 | 18.87 | 10.57 | 13.18 | 1.05 | 0.82 | 34.94 | 21.85 | 2.92 |
| 2900.0 | 12.84 | 18.47 | 10.72 | 13.34 | 1.04 | 0.82 | 34.99 | 21.81 | 2.94 |
| 3000.0 | 12.72 | 18.31 | 10.79 | 13.42 | 1.04 | 0.81 | 34.88 | 21.87 | 2.94 |
| 3200.0 | 12.47 | 17.93 | 10.91 | 13.71 | 1.04 | 0.81 | 35.25 | 21.89 | 2.96 |
| 3400.0 | 12.22 | 17.60 | 11.14 | 14.14 | 1.04 | 0.80 | 35.16 | 21.89 | 2.96 |
| 3600.0 | 11.96 | 17.32 | 11.54 | 14.44 | 1.05 | 0.79 | 35.22 | 21.96 | 3.07 |
| 3800.0 | 11.76 | 16.92 | 11.54 | 14.59 | 1.04 | 0.78 | 35.42 | 21.86 | 3.09 |
| 4000.0 | 11.52 | 16.59 | 11.49 | 14.96 | 1.04 | 0.78 | 35.79 | 21.90 | 3.20 |
| 4100.0 | 11.40 | 16.47 | 11.52 | 15.11 | 1.04 | 0.78 | 36.34 | 21.79 | 3.14 |
| 4300.0 | 11.18 | 16.16 | 11.30 | 15.09 | 1.04 | 0.77 | 36.57 | 21.87 | 3.24 |
| 4500.0 | 10.94 | 15.91 | 10.99 | 15.00 | 1.04 | 0.77 | 36.19 | 21.68 | 3.49 |
| 4700.0 | 10.72 | 15.60 | 10.48 | 14.36 | 1.03 | 0.76 | 36.30 | 21.87 | 3.38 |
| 4900.0 | 10.46 | 15.36 | 9.89 | 13.66 | 1.02 | 0.75 | 36.27 | 21.73 | 3.55 |
| 5100.0 | 10.18 | 15.16 | 9.20 | 12.94 | 1.02 | 0.75 | 35.84 | 21.57 | 3.53 |
| 5300.0 | 9.91 | 14.98 | 8.62 | 12.16 | 1.01 | 0.75 | 36.35 | 21.42 | 3.79 |
| 5400.0 | 9.76 | 14.89 | 8.31 | 11.74 | 1.01 | 0.75 | 36.20 | 21.72 | 3.76 |
| 5600.0 | 9.47 | 14.72 | 7.67 | 10.89 | 1.00 | 0.75 | 36.39 | 21.41 | 3.80 |
| 5800.0 | 9.14 | 14.58 | 7.05 | 10.05 | 0.99 | 0.75 | 36.57 | 21.15 | 3.81 |
| 6000.0 | 8.83 | 14.48 | 6.47 | 9.32 | 0.98 | 0.75 | 36.02 | 21.03 | 3.98 |
| 6200.0 | 8.53 | 14.37 | 6.05 | 8.73 | 0.97 | 0.75 | 35.72 | 21.07 | 4.14 |
| 6400.0 | 8.20 | 14.28 | 5.63 | 8.17 | 0.96 | 0.74 | 35.53 | 20.86 | 4.14 |
| 6600.0 | 7.85 | 14.24 | 5.16 | 7.65 | 0.95 | 0.75 | 35.11 | 20.90 | 4.26 |
| 6800.0 | 7.50 | 14.18 | 4.81 | 7.14 | 0.94 | 0.74 | 35.30 | 20.81 | 4.40 |
| 7000.0 | 7.13 | 14.17 | 4.48 | 6.67 | 0.93 | 0.74 | 35.09 | 20.43 | 4.75 |

(1) Current increases at P1dB

## Typical Performance Data

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

TEST CONDITIONS: Vd = 5.00V, Id=72.88 mA @ Temperature = +25degC

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output (1) | Noise Figure |
|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 50.0 | 18.55 | 27.77 | 9.05 | 9.35 | 1.41 | 0.79 | 31.29 | 21.49 | 2.88 |
| 100.0 | 17.64 | 24.51 | 10.38 | 11.34 | 1.19 | 0.77 | 31.86 | 21.69 | 2.43 |
| 200.0 | 16.94 | 23.31 | 12.31 | 13.72 | 1.19 | 0.77 | 32.74 | 21.62 | 2.28 |
| 300.0 | 16.60 | 22.86 | 13.27 | 15.04 | 1.20 | 0.77 | 33.23 | 21.51 | 2.31 |
| 500.0 | 16.27 | 22.44 | 13.76 | 15.94 | 1.20 | 0.77 | 33.66 | 21.65 | 2.33 |
| 600.0 | 16.15 | 22.33 | 13.73 | 16.09 | 1.19 | 0.78 | 33.39 | 21.63 | 2.30 |
| 800.0 | 15.91 | 22.02 | 13.45 | 15.91 | 1.18 | 0.78 | 33.87 | 21.66 | 2.38 |
| 1000.0 | 15.65 | 21.77 | 13.03 | 15.51 | 1.17 | 0.79 | 34.05 | 21.65 | 2.39 |
| 1200.0 | 15.37 | 21.41 | 12.65 | 15.15 | 1.15 | 0.80 | 33.49 | 21.78 | 2.41 |
| 1400.0 | 15.09 | 21.10 | 12.23 | 14.87 | 1.13 | 0.80 | 33.80 | 21.84 | 2.45 |
| 1600.0 | 14.79 | 20.75 | 11.92 | 14.59 | 1.12 | 0.81 | 33.58 | 21.65 | 2.46 |
| 1700.0 | 14.64 | 20.59 | 11.81 | 14.47 | 1.11 | 0.81 | 34.00 | 21.80 | 2.43 |
| 1900.0 | 14.33 | 20.20 | 11.56 | 14.30 | 1.09 | 0.81 | 33.65 | 21.73 | 2.44 |
| 2100.0 | 14.03 | 19.88 | 11.39 | 14.16 | 1.09 | 0.81 | 34.27 | 21.82 | 2.46 |
| 2300.0 | 13.75 | 19.49 | 11.33 | 14.07 | 1.08 | 0.81 | 34.34 | 21.81 | 2.47 |
| 2500.0 | 13.46 | 19.17 | 11.32 | 14.03 | 1.07 | 0.81 | 34.38 | 21.80 | 2.46 |
| 2700.0 | 13.20 | 18.79 | 11.34 | 14.05 | 1.06 | 0.80 | 34.38 | 21.89 | 2.60 |
| 2900.0 | 12.94 | 18.46 | 11.43 | 14.17 | 1.06 | 0.80 | 34.55 | 21.84 | 2.60 |
| 3000.0 | 12.83 | 18.26 | 11.47 | 14.18 | 1.06 | 0.79 | 34.33 | 21.92 | 2.56 |
| 3200.0 | 12.59 | 17.89 | 11.60 | 14.35 | 1.05 | 0.79 | 34.75 | 21.92 | 2.62 |
| 3400.0 | 12.36 | 17.55 | 11.81 | 14.67 | 1.05 | 0.78 | 34.62 | 21.95 | 2.58 |
| 3600.0 | 12.07 | 17.30 | 12.21 | 15.28 | 1.06 | 0.77 | 34.82 | 22.01 | 2.76 |
| 3800.0 | 11.93 | 16.89 | 12.12 | 15.15 | 1.04 | 0.76 | 34.82 | 21.96 | 2.76 |
| 4000.0 | 11.70 | 16.52 | 12.10 | 15.47 | 1.04 | 0.75 | 35.22 | 22.00 | 2.80 |
| 4100.0 | 11.60 | 16.37 | 12.13 | 15.56 | 1.04 | 0.74 | 35.50 | 21.91 | 2.81 |
| 4300.0 | 11.38 | 16.08 | 11.92 | 15.64 | 1.04 | 0.74 | 35.65 | 21.99 | 2.86 |
| 4500.0 | 11.16 | 15.82 | 11.60 | 15.56 | 1.04 | 0.73 | 35.41 | 21.83 | 3.02 |
| 4700.0 | 10.96 | 15.51 | 11.04 | 14.87 | 1.03 | 0.72 | 35.59 | 22.02 | 2.99 |
| 4900.0 | 10.71 | 15.26 | 10.37 | 14.11 | 1.02 | 0.72 | 35.32 | 21.84 | 3.08 |
| 5100.0 | 10.44 | 15.06 | 9.62 | 13.27 | 1.01 | 0.71 | 35.13 | 21.68 | 3.16 |
| 5300.0 | 10.17 | 14.89 | 8.96 | 12.45 | 1.01 | 0.71 | 35.47 | 21.55 | 3.26 |
| 5400.0 | 10.03 | 14.80 | 8.59 | 12.00 | 1.01 | 0.71 | 35.44 | 21.82 | 3.29 |
| 5600.0 | 9.73 | 14.64 | 7.89 | 11.08 | 1.00 | 0.71 | 35.62 | 21.51 | 3.32 |
| 5800.0 | 9.41 | 14.52 | 7.25 | 10.20 | 0.99 | 0.70 | 35.41 | 21.24 | 3.41 |
| 6000.0 | 9.12 | 14.40 | 6.63 | 9.45 | 0.98 | 0.70 | 34.96 | 21.12 | 3.45 |
| 6200.0 | 8.80 | 14.31 | 6.13 | 8.77 | 0.97 | 0.70 | 34.73 | 21.15 | 3.53 |
| 6400.0 | 8.47 | 14.21 | 5.68 | 8.16 | 0.97 | 0.70 | 34.55 | 20.93 | 3.53 |
| 6600.0 | 8.13 | 14.15 | 5.20 | 7.61 | 0.96 | 0.70 | 34.10 | 20.97 | 3.71 |
| 6800.0 | 7.80 | 14.10 | 4.83 | 7.11 | 0.95 | 0.69 | 34.48 | 20.87 | 3.85 |
| 7000.0 | 7.45 | 14.06 | 4.49 | 6.63 | 0.94 | 0.69 | 34.14 | 20.51 | 4.29 |

(1) Current increases at P1dB

## *Typical Performance Data*

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

TEST CONDITIONS: Vd = 4.75V, Id=64.47mA @ Temperature = +25degC

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output (1) | Noise Figure |
|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 50.0 | 18.34 | 26.29 | 8.87 | 8.88 | 1.27 | 0.72 | 30.67 | 20.89 | 2.73 |
| 100.0 | 17.42 | 24.34 | 10.26 | 11.14 | 1.20 | 0.77 | 30.76 | 21.03 | 2.38 |
| 200.0 | 16.73 | 23.16 | 12.14 | 13.42 | 1.19 | 0.77 | 31.69 | 20.96 | 2.23 |
| 300.0 | 16.40 | 22.72 | 13.10 | 14.67 | 1.20 | 0.77 | 32.00 | 20.86 | 2.27 |
| 500.0 | 16.08 | 22.32 | 13.61 | 15.54 | 1.20 | 0.77 | 32.39 | 20.95 | 2.31 |
| 600.0 | 15.96 | 22.18 | 13.56 | 15.66 | 1.19 | 0.78 | 31.95 | 20.94 | 2.30 |
| 800.0 | 15.72 | 21.93 | 13.31 | 15.49 | 1.18 | 0.79 | 32.34 | 20.97 | 2.35 |
| 1000.0 | 15.46 | 21.60 | 12.91 | 15.12 | 1.16 | 0.79 | 32.45 | 20.99 | 2.37 |
| 1200.0 | 15.19 | 21.29 | 12.53 | 14.78 | 1.15 | 0.80 | 32.03 | 21.06 | 2.39 |
| 1400.0 | 14.91 | 20.98 | 12.12 | 14.52 | 1.13 | 0.81 | 32.22 | 21.14 | 2.44 |
| 1600.0 | 14.61 | 20.64 | 11.82 | 14.26 | 1.12 | 0.81 | 32.07 | 20.97 | 2.43 |
| 1700.0 | 14.46 | 20.48 | 11.70 | 14.14 | 1.11 | 0.81 | 32.55 | 21.08 | 2.40 |
| 1900.0 | 14.17 | 20.11 | 11.46 | 13.96 | 1.10 | 0.81 | 31.94 | 21.01 | 2.42 |
| 2100.0 | 13.87 | 19.75 | 11.29 | 13.86 | 1.08 | 0.82 | 32.63 | 21.09 | 2.43 |
| 2300.0 | 13.59 | 19.40 | 11.22 | 13.75 | 1.08 | 0.81 | 32.84 | 21.07 | 2.46 |
| 2500.0 | 13.31 | 19.05 | 11.21 | 13.72 | 1.07 | 0.81 | 32.72 | 21.09 | 2.45 |
| 2700.0 | 13.05 | 18.71 | 11.23 | 13.77 | 1.06 | 0.81 | 32.87 | 21.15 | 2.61 |
| 2900.0 | 12.80 | 18.39 | 11.31 | 13.88 | 1.06 | 0.80 | 33.00 | 21.11 | 2.55 |
| 3000.0 | 12.68 | 18.16 | 11.37 | 13.89 | 1.05 | 0.80 | 32.64 | 21.20 | 2.60 |
| 3200.0 | 12.45 | 17.80 | 11.48 | 14.07 | 1.05 | 0.79 | 33.16 | 21.22 | 2.59 |
| 3400.0 | 12.22 | 17.45 | 11.68 | 14.40 | 1.05 | 0.78 | 33.06 | 21.24 | 2.60 |
| 3600.0 | 11.94 | 17.23 | 12.09 | 14.99 | 1.06 | 0.78 | 33.24 | 21.30 | 2.69 |
| 3800.0 | 11.81 | 16.80 | 12.01 | 14.92 | 1.04 | 0.76 | 33.32 | 21.27 | 2.58 |
| 4000.0 | 11.58 | 16.46 | 12.00 | 15.22 | 1.04 | 0.75 | 33.93 | 21.31 | 2.76 |
| 4100.0 | 11.47 | 16.31 | 12.02 | 15.33 | 1.04 | 0.75 | 34.37 | 21.29 | 2.77 |
| 4300.0 | 11.27 | 16.02 | 11.84 | 15.42 | 1.04 | 0.74 | 34.67 | 21.33 | 2.78 |
| 4500.0 | 11.05 | 15.78 | 11.53 | 15.37 | 1.04 | 0.74 | 34.36 | 21.19 | 2.83 |
| 4700.0 | 10.84 | 15.48 | 10.98 | 14.76 | 1.03 | 0.73 | 34.51 | 21.33 | 2.99 |
| 4900.0 | 10.60 | 15.21 | 10.32 | 14.03 | 1.02 | 0.72 | 34.35 | 21.20 | 3.10 |
| 5100.0 | 10.33 | 15.01 | 9.60 | 13.23 | 1.01 | 0.72 | 34.07 | 21.07 | 3.11 |
| 5300.0 | 10.06 | 14.85 | 8.92 | 12.42 | 1.01 | 0.72 | 34.71 | 20.95 | 3.19 |
| 5400.0 | 9.92 | 14.76 | 8.56 | 11.99 | 1.01 | 0.72 | 34.59 | 21.21 | 3.23 |
| 5600.0 | 9.62 | 14.62 | 7.86 | 11.08 | 1.00 | 0.72 | 34.97 | 20.96 | 3.25 |
| 5800.0 | 9.31 | 14.47 | 7.23 | 10.21 | 0.99 | 0.71 | 35.18 | 20.68 | 3.25 |
| 6000.0 | 9.01 | 14.39 | 6.62 | 9.47 | 0.98 | 0.72 | 34.75 | 20.59 | 3.42 |
| 6200.0 | 8.70 | 14.29 | 6.12 | 8.79 | 0.97 | 0.71 | 34.30 | 20.62 | 3.52 |
| 6400.0 | 8.36 | 14.22 | 5.67 | 8.19 | 0.97 | 0.71 | 34.14 | 20.39 | 3.52 |
| 6600.0 | 8.03 | 14.15 | 5.20 | 7.64 | 0.96 | 0.71 | 33.71 | 20.42 | 3.65 |
| 6800.0 | 7.70 | 14.09 | 4.82 | 7.14 | 0.95 | 0.71 | 34.04 | 20.33 | 3.77 |
| 7000.0 | 7.35 | 14.08 | 4.48 | 6.65 | 0.94 | 0.70 | 33.78 | 20.02 | 4.00 |

(1) Current increases at P1dB

## *Typical Performance Data*

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

TEST CONDITIONS: Vd = 5.25V, Id=81.49mA @ Temperature = +25degC

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output (1) | Noise Figure |
|---|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 50.0 | 18.63 | 27.08 | 8.58 | 9.35 | 1.32 | 0.77 | 32.07 | 22.03 | 3.04 |
| 100.0 | 17.83 | 24.62 | 10.45 | 11.48 | 1.19 | 0.77 | 32.77 | 22.30 | 2.55 |
| 200.0 | 17.11 | 23.37 | 12.40 | 13.87 | 1.18 | 0.77 | 33.66 | 22.21 | 2.33 |
| 300.0 | 16.77 | 22.95 | 13.38 | 15.24 | 1.19 | 0.77 | 34.06 | 22.10 | 2.36 |
| 500.0 | 16.44 | 22.55 | 13.85 | 16.18 | 1.19 | 0.77 | 34.53 | 22.26 | 2.36 |
| 600.0 | 16.32 | 22.43 | 13.80 | 16.31 | 1.19 | 0.78 | 34.34 | 22.24 | 2.34 |
| 800.0 | 16.07 | 22.17 | 13.51 | 16.12 | 1.18 | 0.78 | 34.89 | 22.28 | 2.39 |
| 1000.0 | 15.80 | 21.87 | 13.08 | 15.72 | 1.16 | 0.79 | 34.97 | 22.26 | 2.40 |
| 1200.0 | 15.52 | 21.55 | 12.69 | 15.36 | 1.15 | 0.80 | 34.38 | 22.42 | 2.43 |
| 1400.0 | 15.23 | 21.21 | 12.28 | 15.08 | 1.13 | 0.80 | 35.02 | 22.47 | 2.47 |
| 1600.0 | 14.92 | 20.84 | 11.96 | 14.77 | 1.11 | 0.81 | 34.70 | 22.28 | 2.48 |
| 1700.0 | 14.77 | 20.70 | 11.86 | 14.65 | 1.11 | 0.81 | 35.07 | 22.47 | 2.46 |
| 1900.0 | 14.46 | 20.35 | 11.61 | 14.47 | 1.10 | 0.81 | 34.95 | 22.37 | 2.47 |
| 2100.0 | 14.16 | 19.97 | 11.42 | 14.36 | 1.09 | 0.81 | 35.34 | 22.47 | 2.48 |
| 2300.0 | 13.87 | 19.60 | 11.38 | 14.25 | 1.08 | 0.81 | 35.43 | 22.48 | 2.48 |
| 2500.0 | 13.58 | 19.26 | 11.38 | 14.20 | 1.07 | 0.81 | 35.33 | 22.47 | 2.49 |
| 2700.0 | 13.32 | 18.85 | 11.40 | 14.23 | 1.06 | 0.80 | 35.50 | 22.54 | 2.61 |
| 2900.0 | 13.05 | 18.51 | 11.49 | 14.33 | 1.06 | 0.80 | 35.58 | 22.52 | 2.65 |
| 3000.0 | 12.94 | 18.35 | 11.53 | 14.35 | 1.06 | 0.79 | 35.41 | 22.57 | 2.62 |
| 3200.0 | 12.70 | 17.97 | 11.64 | 14.51 | 1.05 | 0.78 | 35.61 | 22.60 | 2.62 |
| 3400.0 | 12.46 | 17.59 | 11.85 | 14.84 | 1.05 | 0.77 | 35.50 | 22.60 | 2.65 |
| 3600.0 | 12.17 | 17.35 | 12.26 | 15.43 | 1.06 | 0.77 | 35.81 | 22.66 | 2.69 |
| 3800.0 | 12.03 | 16.92 | 12.18 | 15.29 | 1.04 | 0.75 | 35.81 | 22.60 | 2.71 |
| 4000.0 | 11.80 | 16.58 | 12.14 | 15.60 | 1.04 | 0.75 | 36.09 | 22.61 | 2.88 |
| 4100.0 | 11.69 | 16.43 | 12.17 | 15.71 | 1.04 | 0.74 | 36.01 | 22.53 | 2.83 |
| 4300.0 | 11.47 | 16.14 | 11.97 | 15.76 | 1.04 | 0.73 | 36.00 | 22.61 | 2.93 |
| 4500.0 | 11.25 | 15.86 | 11.64 | 15.66 | 1.04 | 0.73 | 36.00 | 22.41 | 3.01 |
| 4700.0 | 11.04 | 15.56 | 11.07 | 14.96 | 1.03 | 0.72 | 35.77 | 22.57 | 3.01 |
| 4900.0 | 10.80 | 15.31 | 10.40 | 14.16 | 1.02 | 0.71 | 35.86 | 22.44 | 3.11 |
| 5100.0 | 10.52 | 15.10 | 9.65 | 13.30 | 1.01 | 0.71 | 35.44 | 22.24 | 3.17 |
| 5300.0 | 10.25 | 14.91 | 8.97 | 12.48 | 1.01 | 0.71 | 35.64 | 22.09 | 3.26 |
| 5400.0 | 10.11 | 14.83 | 8.61 | 12.03 | 1.01 | 0.70 | 35.86 | 22.39 | 3.35 |
| 5600.0 | 9.81 | 14.65 | 7.89 | 11.09 | 1.00 | 0.70 | 35.33 | 22.06 | 3.36 |
| 5800.0 | 9.49 | 14.53 | 7.25 | 10.21 | 0.99 | 0.70 | 35.36 | 21.75 | 3.50 |
| 6000.0 | 9.20 | 14.42 | 6.64 | 9.47 | 0.98 | 0.70 | 34.78 | 21.63 | 3.53 |
| 6200.0 | 8.88 | 14.32 | 6.14 | 8.77 | 0.97 | 0.69 | 34.63 | 21.67 | 3.62 |
| 6400.0 | 8.55 | 14.22 | 5.68 | 8.16 | 0.97 | 0.69 | 34.64 | 21.43 | 3.62 |
| 6600.0 | 8.21 | 14.15 | 5.20 | 7.61 | 0.96 | 0.69 | 34.25 | 21.47 | 3.84 |
| 6800.0 | 7.88 | 14.10 | 4.83 | 7.09 | 0.95 | 0.69 | 34.49 | 21.37 | 3.97 |
| 7000.0 | 7.53 | 14.08 | 4.48 | 6.61 | 0.94 | 0.68 | 34.01 | 20.99 | 4.34 |

(1) Current increases at P1dB