

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 = 4.00V, Id = 68mA @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 7000 | 7.38 | 66.16 | 4.18 | 5.42 | 205.54 | 0.99 | 2.49 | -4.39 | 7.36 |
| 8000 | 19.18 | 62.70 | 9.27 | 9.75 | 63.74 | 1.00 | 13.28 | 3.34 | 3.62 |
| 9000 | 22.92 | 67.81 | 10.44 | 11.99 | 81.23 | 1.02 | 17.62 | 6.34 | 2.23 |
| 10000 | 25.39 | 60.57 | 12.03 | 12.15 | 27.79 | 1.00 | 18.22 | 8.15 | 1.81 |
| 11000 | 27.02 | 60.08 | 10.36 | 12.65 | 21.27 | 1.03 | 19.26 | 8.11 | 1.70 |
| 12000 | 28.20 | 61.13 | 8.44 | 15.64 | 20.35 | 1.11 | 18.58 | 8.65 | 1.77 |
| 13000 | 28.77 | 59.85 | 8.41 | 17.94 | 16.68 | 1.13 | 19.02 | 8.68 | 1.83 |
| 14000 | 28.70 | 56.31 | 10.46 | 12.54 | 11.52 | 1.03 | 19.73 | 8.62 | 1.79 |
| 15000 | 28.20 | 54.41 | 13.69 | 10.53 | 10.07 | 0.95 | 20.49 | 9.15 | 1.69 |
| 16000 | 27.68 | 51.56 | 16.58 | 10.77 | 7.96 | 0.93 | 21.06 | 9.41 | 1.61 |
| 17000 | 27.13 | 50.77 | 16.15 | 11.78 | 7.88 | 0.95 | 21.38 | 9.21 | 1.56 |
| 18000 | 26.59 | 49.29 | 14.63 | 12.22 | 7.08 | 0.96 | 20.90 | 8.94 | 1.57 |
| 19000 | 26.11 | 48.93 | 14.29 | 11.55 | 7.14 | 0.96 | 19.54 | 8.68 | 1.55 |
| 20000 | 25.73 | 47.20 | 15.35 | 10.87 | 6.16 | 0.93 | 20.34 | 9.44 | 1.59 |
| 21000 | 25.16 | 46.32 | 16.74 | 10.38 | 5.95 | 0.92 | 19.21 | 9.91 | 1.51 |
| 22000 | 24.01 | 46.70 | 14.76 | 9.21 | 6.80 | 0.90 | 20.96 | 10.65 | 1.54 |
| 23000 | 23.23 | 47.32 | 12.27 | 8.81 | 7.69 | 0.91 | 22.11 | 10.48 | 1.59 |
| 24000 | 22.43 | 47.48 | 10.86 | 8.69 | 8.39 | 0.92 | 21.63 | 11.05 | 1.65 |
| 25000 | 21.65 | 48.14 | 10.30 | 8.35 | 9.66 | 0.92 | 22.93 | 11.19 | 1.59 |
| 26000 | 20.86 | 48.38 | 9.42 | 7.72 | 10.38 | 0.92 | 21.22 | 11.06 | 1.81 |
| 27000 | 19.97 | 48.01 | 8.52 | 7.20 | 10.41 | 0.92 | 21.83 | 11.15 | 1.99 |
| 28000 | 19.25 | 46.14 | 7.97 | 7.34 | 8.98 | 0.95 | 22.33 | 11.16 | 2.16 |
| 29000 | 18.76 | 45.49 | 7.85 | 8.18 | 9.10 | 0.99 | 21.06 | 10.91 | 2.18 |
| 30000 | 18.34 | 45.90 | 8.17 | 9.27 | 10.56 | 1.02 | 20.56 | 11.16 | 2.27 |
| 31000 | 17.84 | 46.16 | 8.32 | 9.90 | 11.87 | 1.04 | 21.01 | 10.99 | 2.40 |
| 32000 | 17.21 | 46.83 | 7.76 | 9.49 | 13.33 | 1.04 | 21.75 | 10.56 | 2.70 |
| 33000 | 16.37 | 46.96 | 6.41 | 8.85 | 13.55 | 1.08 | 21.03 | 10.36 | 3.01 |
| 34000 | 15.53 | 46.49 | 5.04 | 8.37 | 12.50 | 1.13 | 21.29 | 10.24 | 3.39 |
| 35000 | 14.88 | 46.66 | 4.24 | 8.19 | 12.63 | 1.17 | 20.15 | 10.01 | 3.80 |
| 36000 | 13.96 | 47.31 | 3.78 | 8.01 | 14.28 | 1.19 | 21.30 | 9.83 | 3.98 |
| 37000 | 13.58 | 45.79 | 3.75 | 8.57 | 12.83 | 1.21 | 21.70 | 9.71 | 4.19 |
| 38000 | 13.19 | 44.82 | 4.16 | 9.15 | 12.93 | 1.21 | 22.13 | 10.31 | 4.10 |
| 39000 | 13.20 | 46.60 | 4.69 | 10.53 | 17.57 | 1.22 | 21.22 | 10.79 | 3.97 |
| 40000 | 13.59 | 44.74 | 4.93 | 12.17 | 14.53 | 1.24 | 22.37 | 11.68 | 3.86 |
| 41000 | 13.18 | 44.17 | 4.83 | 11.04 | 14.06 | 1.22 | 22.59 | 10.80 | 3.81 |
| 42000 | 12.05 | 44.69 | 4.50 | 9.22 | 15.66 | 1.19 | 22.72 | 10.40 | 4.16 |
| 43000 | 10.40 | 45.36 | 4.28 | 8.12 | 18.82 | 1.17 | 21.10 | 9.74 | 4.58 |
| 44000 | 8.52 | 52.61 | 4.40 | 7.75 | 53.79 | 1.14 | 21.79 | 9.25 | 5.12 |
| 45000 | 7.88 | 52.63 | 4.07 | 7.87 | 56.17 | 1.17 | 20.48 | 10.27 | 5.12 |
| 46000 | 7.69 | 49.10 | 3.74 | 8.36 | 37.46 | 1.22 | 19.38 | 10.38 | 4.97 |
| 47000 | 8.06 | 47.43 | 3.80 | 8.83 | 31.12 | 1.23 | 20.71 | 9.90 | 5.04 |
| 48000 | 9.73 | 45.19 | 4.53 | 8.03 | 21.64 | 1.14 | 19.56 | 10.44 | 4.73 |
| 49000 | 10.99 | 42.74 | 6.74 | 6.97 | 16.68 | 0.97 | 20.51 | 11.59 | 4.81 |
| 50000 | 10.73 | 42.82 | 12.03 | 6.87 | 20.79 | 0.84 | 20.31 | 12.44 | 5.56 |

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 = 3.75V, Id = 63mA @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 7000 | 6.72 | 66.69 | 4.00 | 5.41 | 229.36 | 1.00 | 1.77 | -5.07 | 7.38 |
| 8000 | 18.93 | 64.83 | 9.50 | 9.82 | 84.65 | 1.00 | 12.47 | 2.55 | 3.48 |
| 9000 | 22.62 | 69.03 | 10.61 | 12.09 | 97.34 | 1.02 | 16.77 | 5.68 | 2.29 |
| 10000 | 25.07 | 58.79 | 12.08 | 12.24 | 23.53 | 1.00 | 17.26 | 7.51 | 1.79 |
| 11000 | 26.69 | 60.80 | 10.21 | 12.69 | 23.91 | 1.04 | 18.50 | 7.58 | 1.81 |
| 12000 | 27.87 | 61.71 | 8.21 | 15.65 | 22.40 | 1.12 | 18.09 | 8.12 | 1.84 |
| 13000 | 28.47 | 57.87 | 8.16 | 18.25 | 13.64 | 1.14 | 18.55 | 8.06 | 1.93 |
| 14000 | 28.43 | 54.72 | 10.16 | 12.70 | 9.85 | 1.04 | 19.01 | 8.14 | 1.85 |
| 15000 | 27.95 | 52.49 | 13.35 | 10.63 | 8.31 | 0.95 | 19.76 | 8.69 | 1.75 |
| 16000 | 27.42 | 51.84 | 16.15 | 10.85 | 8.46 | 0.93 | 20.52 | 8.81 | 1.63 |
| 17000 | 26.86 | 49.85 | 15.83 | 11.89 | 7.31 | 0.95 | 20.86 | 8.73 | 1.61 |
| 18000 | 26.32 | 48.56 | 14.38 | 12.32 | 6.72 | 0.97 | 20.19 | 8.45 | 1.59 |
| 19000 | 25.83 | 48.32 | 14.04 | 11.64 | 6.88 | 0.96 | 19.62 | 8.19 | 1.58 |
| 20000 | 25.46 | 46.87 | 15.08 | 10.96 | 6.12 | 0.94 | 19.09 | 8.83 | 1.55 |
| 21000 | 24.91 | 46.06 | 16.61 | 10.48 | 5.95 | 0.92 | 19.04 | 9.31 | 1.54 |
| 22000 | 23.79 | 46.98 | 14.85 | 9.31 | 7.23 | 0.90 | 20.51 | 10.07 | 1.49 |
| 23000 | 23.02 | 47.30 | 12.32 | 8.90 | 7.89 | 0.91 | 21.02 | 9.90 | 1.56 |
| 24000 | 22.22 | 47.73 | 10.87 | 8.78 | 8.86 | 0.93 | 21.33 | 10.47 | 1.65 |
| 25000 | 21.45 | 48.31 | 10.29 | 8.43 | 10.11 | 0.93 | 22.13 | 10.61 | 1.69 |
| 26000 | 20.65 | 47.95 | 9.39 | 7.79 | 10.13 | 0.92 | 20.99 | 10.49 | 1.80 |
| 27000 | 19.77 | 46.74 | 8.51 | 7.24 | 9.25 | 0.92 | 21.02 | 10.58 | 1.95 |
| 28000 | 19.04 | 47.45 | 7.94 | 7.35 | 10.68 | 0.95 | 20.85 | 10.59 | 2.18 |
| 29000 | 18.55 | 45.02 | 7.78 | 8.20 | 8.79 | 1.00 | 21.39 | 10.33 | 2.14 |
| 30000 | 18.13 | 45.16 | 8.08 | 9.29 | 9.91 | 1.03 | 20.69 | 10.58 | 2.25 |
| 31000 | 17.62 | 46.59 | 8.21 | 9.90 | 12.74 | 1.04 | 21.48 | 10.41 | 2.43 |
| 32000 | 16.98 | 47.12 | 7.69 | 9.49 | 14.10 | 1.04 | 20.92 | 9.99 | 2.65 |
| 33000 | 16.14 | 47.52 | 6.33 | 8.81 | 14.75 | 1.08 | 20.86 | 9.89 | 2.96 |
| 34000 | 15.28 | 46.77 | 4.98 | 8.29 | 13.16 | 1.13 | 21.47 | 9.75 | 3.36 |
| 35000 | 14.61 | 46.42 | 4.19 | 8.06 | 12.52 | 1.16 | 21.60 | 9.48 | 3.82 |
| 36000 | 13.69 | 46.42 | 3.74 | 7.89 | 13.15 | 1.18 | 21.00 | 9.42 | 3.95 |
| 37000 | 13.31 | 46.45 | 3.72 | 8.43 | 14.11 | 1.21 | 22.28 | 9.33 | 4.16 |
| 38000 | 12.93 | 45.12 | 4.12 | 9.04 | 13.67 | 1.21 | 20.68 | 9.85 | 4.04 |
| 39000 | 12.97 | 47.36 | 4.66 | 10.44 | 19.57 | 1.22 | 21.20 | 10.33 | 3.94 |
| 40000 | 13.36 | 44.39 | 4.90 | 11.97 | 14.27 | 1.24 | 21.32 | 11.15 | 3.84 |
| 41000 | 12.94 | 45.29 | 4.78 | 10.92 | 16.33 | 1.22 | 21.38 | 10.27 | 3.87 |
| 42000 | 11.81 | 43.80 | 4.46 | 9.13 | 14.42 | 1.19 | 20.57 | 9.89 | 4.25 |
| 43000 | 10.17 | 46.40 | 4.26 | 8.11 | 21.70 | 1.17 | 22.22 | 9.26 | 4.53 |
| 44000 | 8.30 | 54.38 | 4.39 | 7.74 | 67.56 | 1.14 | 20.93 | 8.76 | 4.58 |
| 45000 | 7.68 | 53.78 | 4.06 | 7.86 | 65.49 | 1.17 | 20.43 | 9.97 | 5.07 |
| 46000 | 7.50 | 49.77 | 3.73 | 8.38 | 41.40 | 1.22 | 20.84 | 10.15 | 4.74 |
| 47000 | 7.88 | 49.30 | 3.80 | 8.83 | 39.42 | 1.23 | 20.26 | 9.67 | 5.08 |
| 48000 | 9.54 | 45.75 | 4.56 | 8.06 | 23.72 | 1.14 | 19.04 | 10.11 | 4.79 |
| 49000 | 10.80 | 43.42 | 6.78 | 7.06 | 18.59 | 0.97 | 21.39 | 11.19 | 4.78 |
| 50000 | 10.51 | 42.55 | 12.09 | 6.98 | 20.83 | 0.84 | 18.84 | 12.01 | 5.69 |

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 = 4.25V, Id = 73mA @ Temperature = +25°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 7000 | 7.94 | 72.53 | 4.35 | 5.43 | 411.03 | 0.98 | 2.76 | -3.80 | 7.29 |
| 8000 | 19.39 | 61.47 | 9.09 | 9.68 | 53.60 | 1.00 | 14.08 | 4.07 | 3.47 |
| 9000 | 23.16 | 63.93 | 10.31 | 11.90 | 50.30 | 1.02 | 18.43 | 6.94 | 2.24 |
| 10000 | 25.64 | 64.95 | 11.98 | 12.07 | 44.52 | 1.00 | 18.54 | 8.62 | 1.80 |
| 11000 | 27.30 | 59.77 | 10.49 | 12.61 | 19.91 | 1.03 | 19.54 | 8.58 | 1.75 |
| 12000 | 28.48 | 63.04 | 8.63 | 15.65 | 24.72 | 1.11 | 19.37 | 9.24 | 1.80 |
| 13000 | 29.02 | 60.77 | 8.65 | 17.67 | 18.17 | 1.12 | 19.69 | 9.13 | 1.88 |
| 14000 | 28.92 | 56.45 | 10.72 | 12.39 | 11.46 | 1.02 | 20.17 | 9.04 | 1.79 |
| 15000 | 28.41 | 54.31 | 13.99 | 10.46 | 9.74 | 0.94 | 21.39 | 9.69 | 1.73 |
| 16000 | 27.89 | 51.75 | 16.96 | 10.71 | 7.95 | 0.93 | 21.65 | 9.83 | 1.65 |
| 17000 | 27.35 | 50.42 | 16.43 | 11.71 | 7.38 | 0.95 | 22.03 | 9.77 | 1.54 |
| 18000 | 26.82 | 49.92 | 14.84 | 12.16 | 7.41 | 0.96 | 21.20 | 9.51 | 1.57 |
| 19000 | 26.33 | 48.70 | 14.49 | 11.48 | 6.79 | 0.95 | 21.13 | 9.12 | 1.58 |
| 20000 | 25.95 | 47.19 | 15.60 | 10.79 | 6.00 | 0.93 | 20.60 | 9.86 | 1.59 |
| 21000 | 25.37 | 47.13 | 16.84 | 10.28 | 6.36 | 0.91 | 20.01 | 10.32 | 1.57 |
| 22000 | 24.19 | 46.84 | 14.70 | 9.12 | 6.75 | 0.90 | 21.01 | 11.05 | 1.50 |
| 23000 | 23.41 | 47.58 | 12.22 | 8.73 | 7.74 | 0.91 | 23.43 | 10.87 | 1.53 |
| 24000 | 22.60 | 47.81 | 10.85 | 8.61 | 8.51 | 0.92 | 21.75 | 11.57 | 1.62 |
| 25000 | 21.81 | 47.98 | 10.32 | 8.28 | 9.30 | 0.92 | 22.88 | 11.71 | 1.70 |
| 26000 | 21.02 | 48.09 | 9.44 | 7.65 | 9.84 | 0.91 | 21.31 | 11.59 | 1.82 |
| 27000 | 20.13 | 47.29 | 8.55 | 7.14 | 9.44 | 0.91 | 22.38 | 11.68 | 1.92 |
| 28000 | 19.42 | 46.74 | 8.00 | 7.28 | 9.42 | 0.94 | 22.08 | 11.68 | 2.15 |
| 29000 | 18.93 | 45.56 | 7.90 | 8.17 | 9.00 | 0.99 | 21.89 | 11.45 | 2.21 |
| 30000 | 18.52 | 45.42 | 8.24 | 9.26 | 9.82 | 1.02 | 21.58 | 11.60 | 2.31 |
| 31000 | 18.03 | 45.92 | 8.38 | 9.90 | 11.33 | 1.03 | 21.78 | 11.51 | 2.44 |
| 32000 | 17.40 | 47.07 | 7.84 | 9.53 | 13.47 | 1.04 | 21.35 | 11.10 | 2.68 |
| 33000 | 16.57 | 47.93 | 6.48 | 8.87 | 14.90 | 1.07 | 21.50 | 10.93 | 3.08 |
| 34000 | 15.75 | 46.88 | 5.09 | 8.46 | 12.84 | 1.13 | 21.91 | 10.82 | 3.43 |
| 35000 | 15.12 | 46.16 | 4.27 | 8.34 | 11.72 | 1.17 | 21.20 | 10.54 | 3.78 |
| 36000 | 14.19 | 47.36 | 3.81 | 8.14 | 14.14 | 1.19 | 20.63 | 10.39 | 4.01 |
| 37000 | 13.81 | 45.68 | 3.78 | 8.70 | 12.48 | 1.22 | 23.23 | 10.27 | 4.21 |
| 38000 | 13.40 | 45.63 | 4.18 | 9.23 | 13.93 | 1.21 | 21.24 | 10.85 | 4.10 |
| 39000 | 13.40 | 46.93 | 4.71 | 10.62 | 17.86 | 1.22 | 23.14 | 11.22 | 3.92 |
| 40000 | 13.80 | 45.55 | 4.95 | 12.26 | 15.65 | 1.24 | 22.59 | 12.14 | 3.86 |
| 41000 | 13.39 | 43.19 | 4.84 | 11.17 | 12.30 | 1.22 | 22.62 | 11.26 | 3.90 |
| 42000 | 12.26 | 45.33 | 4.51 | 9.26 | 16.46 | 1.19 | 22.28 | 10.86 | 4.11 |
| 43000 | 10.59 | 46.69 | 4.29 | 8.14 | 21.51 | 1.16 | 24.06 | 10.18 | 4.52 |
| 44000 | 8.71 | 50.95 | 4.42 | 7.75 | 43.54 | 1.14 | 21.75 | 9.68 | 5.08 |
| 45000 | 8.06 | 52.86 | 4.10 | 7.85 | 56.69 | 1.16 | 21.41 | 10.61 | 5.23 |
| 46000 | 7.84 | 48.39 | 3.75 | 8.34 | 33.98 | 1.22 | 20.31 | 10.68 | 4.90 |
| 47000 | 8.22 | 47.10 | 3.80 | 8.81 | 29.34 | 1.23 | 19.94 | 10.11 | 5.06 |
| 48000 | 9.89 | 44.72 | 4.52 | 7.95 | 20.00 | 1.14 | 19.16 | 10.72 | 4.70 |
| 49000 | 11.16 | 43.73 | 6.70 | 6.85 | 18.16 | 0.96 | 22.14 | 11.89 | 4.85 |
| 50000 | 10.92 | 43.53 | 11.89 | 6.75 | 21.88 | 0.84 | 19.89 | 12.92 | 5.48 |

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 = 4.00V, Id = 73.00mA @ Temperature = -45°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 7000 | 9.20 | 71.38 | 3.32 | 4.96 | 248.88 | 1.00 | 4.16 | -3.22 | 6.15 |
| 8000 | 20.99 | 60.04 | 8.54 | 9.19 | 36.32 | 1.00 | 14.71 | 4.53 | 2.55 |
| 9000 | 24.56 | 67.03 | 9.90 | 11.46 | 59.59 | 1.02 | 18.84 | 7.31 | 1.54 |
| 10000 | 26.93 | 62.18 | 11.82 | 11.41 | 27.32 | 0.99 | 19.29 | 8.88 | 1.23 |
| 11000 | 28.52 | 61.71 | 10.54 | 11.47 | 21.10 | 1.01 | 20.38 | 8.80 | 1.14 |
| 12000 | 29.70 | 66.80 | 8.43 | 14.11 | 32.12 | 1.10 | 19.93 | 9.35 | 1.24 |
| 13000 | 30.29 | 60.25 | 8.29 | 16.70 | 14.35 | 1.13 | 20.42 | 9.25 | 1.28 |
| 14000 | 30.20 | 58.82 | 10.50 | 11.68 | 12.64 | 1.02 | 21.19 | 9.30 | 1.19 |
| 15000 | 29.67 | 54.55 | 13.79 | 9.83 | 8.41 | 0.93 | 21.85 | 9.85 | 1.08 |
| 16000 | 29.13 | 52.65 | 16.32 | 9.99 | 7.39 | 0.91 | 22.34 | 10.12 | 1.08 |
| 17000 | 28.60 | 50.00 | 16.97 | 10.79 | 5.95 | 0.93 | 22.88 | 9.89 | 0.96 |
| 18000 | 28.11 | 49.46 | 15.20 | 11.50 | 5.94 | 0.95 | 21.67 | 9.48 | 1.00 |
| 19000 | 27.65 | 49.10 | 13.66 | 11.32 | 5.97 | 0.95 | 21.09 | 9.29 | 0.94 |
| 20000 | 27.35 | 47.67 | 14.29 | 10.73 | 5.28 | 0.93 | 21.71 | 9.99 | 0.94 |
| 21000 | 26.90 | 46.07 | 17.57 | 9.94 | 4.66 | 0.90 | 20.88 | 10.36 | 0.96 |
| 22000 | 25.60 | 46.68 | 14.32 | 8.55 | 5.44 | 0.88 | 21.78 | 11.06 | 0.94 |
| 23000 | 24.87 | 47.51 | 11.79 | 8.49 | 6.30 | 0.90 | 23.13 | 10.86 | 0.97 |
| 24000 | 24.15 | 48.08 | 11.19 | 8.57 | 7.27 | 0.91 | 23.02 | 11.52 | 1.07 |
| 25000 | 23.33 | 47.68 | 10.61 | 7.62 | 7.28 | 0.88 | 23.14 | 11.52 | 1.02 |
| 26000 | 22.38 | 48.14 | 8.65 | 6.88 | 7.80 | 0.89 | 21.96 | 11.30 | 1.18 |
| 27000 | 21.64 | 48.26 | 8.11 | 6.84 | 8.41 | 0.91 | 21.46 | 11.54 | 1.31 |
| 28000 | 21.06 | 47.02 | 8.46 | 6.91 | 7.90 | 0.91 | 22.06 | 11.54 | 1.37 |
| 29000 | 20.24 | 45.57 | 7.77 | 6.88 | 7.07 | 0.93 | 22.12 | 11.21 | 1.53 |
| 30000 | 19.73 | 45.30 | 7.57 | 8.25 | 7.66 | 1.01 | 21.93 | 11.47 | 1.69 |
| 31000 | 19.49 | 45.56 | 8.29 | 9.81 | 8.91 | 1.04 | 22.22 | 11.46 | 1.66 |
| 32000 | 18.95 | 46.29 | 8.64 | 8.57 | 10.05 | 0.99 | 22.00 | 10.90 | 1.83 |
| 33000 | 17.84 | 46.85 | 6.23 | 7.37 | 10.15 | 1.02 | 22.19 | 10.58 | 2.35 |
| 34000 | 16.90 | 45.44 | 4.54 | 7.55 | 8.33 | 1.12 | 22.81 | 10.45 | 2.71 |
| 35000 | 16.65 | 46.00 | 4.21 | 8.53 | 9.32 | 1.19 | 22.58 | 10.55 | 2.92 |
| 36000 | 15.68 | 46.22 | 3.89 | 7.82 | 10.12 | 1.17 | 22.13 | 10.28 | 3.01 |
| 37000 | 14.89 | 45.53 | 3.30 | 7.77 | 9.37 | 1.21 | 22.31 | 10.08 | 3.39 |
| 38000 | 14.43 | 45.13 | 3.31 | 8.59 | 9.72 | 1.25 | 21.45 | 10.50 | 3.48 |
| 39000 | 14.54 | 46.83 | 4.21 | 10.17 | 14.06 | 1.24 | 24.20 | 11.16 | 3.15 |
| 40000 | 15.03 | 44.04 | 4.42 | 11.55 | 10.35 | 1.26 | 25.65 | 11.91 | 2.92 |
| 41000 | 14.45 | 43.55 | 4.05 | 10.81 | 9.87 | 1.27 | 25.34 | 11.21 | 3.11 |
| 42000 | 13.78 | 44.70 | 4.21 | 10.44 | 12.42 | 1.25 | 21.15 | 11.36 | 3.17 |
| 43000 | 12.13 | 44.06 | 4.01 | 8.06 | 12.46 | 1.18 | 21.31 | 10.34 | 3.50 |
| 44000 | 9.55 | 51.31 | 3.51 | 6.60 | 32.49 | 1.13 | 23.84 | 9.97 | 4.46 |
| 45000 | 8.81 | 52.65 | 3.27 | 7.30 | 41.40 | 1.20 | 21.79 | 10.98 | 4.55 |
| 46000 | 9.30 | 49.00 | 3.82 | 9.63 | 31.26 | 1.26 | 21.61 | 10.83 | 4.16 |
| 47000 | 9.29 | 46.97 | 3.78 | 9.03 | 24.42 | 1.24 | 21.82 | 10.27 | 3.46 |
| 48000 | 10.22 | 44.76 | 3.25 | 7.20 | 14.48 | 1.20 | 21.59 | 10.74 | 4.73 |
| 49000 | 11.66 | 43.32 | 4.36 | 6.16 | 12.32 | 1.04 | 22.26 | 12.20 | 4.19 |
| 50000 | 12.51 | 41.67 | 9.97 | 6.47 | 13.60 | 0.84 | 20.09 | 13.14 | 3.64 |

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 = 3.75V, Id = 68mA @ Temperature = -45°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 7000 | 8.59 | 64.46 | 3.20 | 4.96 | 117.39 | 1.01 | 4.41 | -3.91 | 6.18 |
| 8000 | 20.78 | 63.57 | 8.71 | 9.27 | 56.32 | 1.00 | 13.88 | 3.75 | 2.63 |
| 9000 | 24.29 | 68.38 | 10.06 | 11.57 | 72.23 | 1.02 | 18.06 | 6.53 | 1.60 |
| 10000 | 26.64 | 60.10 | 11.91 | 11.49 | 22.32 | 0.99 | 18.48 | 8.37 | 1.20 |
| 11000 | 28.22 | 60.24 | 10.42 | 11.54 | 18.42 | 1.01 | 19.43 | 8.15 | 1.13 |
| 12000 | 29.39 | 63.00 | 8.24 | 14.12 | 21.33 | 1.11 | 19.81 | 8.81 | 1.25 |
| 13000 | 30.00 | 61.84 | 8.06 | 16.95 | 17.67 | 1.13 | 19.66 | 8.74 | 1.32 |
| 14000 | 29.94 | 57.13 | 10.18 | 11.83 | 10.67 | 1.02 | 20.48 | 8.82 | 1.15 |
| 15000 | 29.43 | 54.66 | 13.49 | 9.90 | 8.73 | 0.93 | 20.82 | 9.38 | 1.14 |
| 16000 | 28.89 | 52.91 | 16.03 | 10.06 | 7.82 | 0.92 | 21.78 | 9.65 | 1.03 |
| 17000 | 28.35 | 50.53 | 16.52 | 10.85 | 6.48 | 0.93 | 22.93 | 9.28 | 0.98 |
| 18000 | 27.86 | 49.51 | 14.94 | 11.58 | 6.15 | 0.95 | 21.57 | 8.87 | 1.01 |
| 19000 | 27.39 | 48.48 | 13.51 | 11.39 | 5.72 | 0.96 | 21.92 | 8.65 | 0.99 |
| 20000 | 27.10 | 47.24 | 14.16 | 10.80 | 5.18 | 0.93 | 21.76 | 9.36 | 1.00 |
| 21000 | 26.66 | 46.22 | 17.15 | 10.05 | 4.87 | 0.90 | 20.23 | 9.75 | 1.00 |
| 22000 | 25.40 | 46.51 | 14.49 | 8.68 | 5.48 | 0.88 | 21.22 | 10.47 | 0.94 |
| 23000 | 24.67 | 47.37 | 11.86 | 8.57 | 6.37 | 0.90 | 24.75 | 10.28 | 0.98 |
| 24000 | 23.95 | 47.39 | 11.16 | 8.64 | 6.88 | 0.92 | 21.00 | 10.93 | 0.97 |
| 25000 | 23.14 | 47.71 | 10.54 | 7.71 | 7.46 | 0.89 | 23.96 | 10.94 | 1.02 |
| 26000 | 22.21 | 47.45 | 8.75 | 6.96 | 7.41 | 0.89 | 22.02 | 10.70 | 1.16 |
| 27000 | 21.45 | 46.18 | 8.11 | 6.89 | 6.78 | 0.91 | 23.52 | 10.86 | 1.27 |
| 28000 | 20.84 | 45.81 | 8.32 | 6.96 | 7.03 | 0.91 | 20.85 | 10.96 | 1.29 |
| 29000 | 20.05 | 45.43 | 7.78 | 6.95 | 7.13 | 0.94 | 22.12 | 10.53 | 1.54 |
| 30000 | 19.54 | 45.04 | 7.59 | 8.26 | 7.60 | 1.01 | 21.37 | 10.77 | 1.68 |
| 31000 | 19.27 | 45.55 | 8.21 | 9.81 | 9.09 | 1.04 | 23.11 | 10.76 | 1.67 |
| 32000 | 18.73 | 46.14 | 8.46 | 8.61 | 10.08 | 0.99 | 22.40 | 10.30 | 1.82 |
| 33000 | 17.63 | 47.89 | 6.25 | 7.38 | 11.78 | 1.02 | 23.86 | 10.00 | 2.32 |
| 34000 | 16.68 | 46.78 | 4.54 | 7.49 | 9.96 | 1.12 | 22.58 | 9.86 | 2.74 |
| 35000 | 16.37 | 44.99 | 4.16 | 8.38 | 8.45 | 1.18 | 20.76 | 9.86 | 2.87 |
| 36000 | 15.40 | 46.02 | 3.83 | 7.71 | 10.03 | 1.17 | 21.32 | 9.74 | 3.02 |
| 37000 | 14.66 | 45.35 | 3.31 | 7.66 | 9.40 | 1.20 | 21.81 | 9.45 | 3.24 |
| 38000 | 14.22 | 44.61 | 3.34 | 8.50 | 9.42 | 1.24 | 20.49 | 10.00 | 3.46 |
| 39000 | 14.30 | 46.35 | 4.19 | 10.09 | 13.61 | 1.24 | 21.19 | 10.56 | 3.13 |
| 40000 | 14.78 | 45.03 | 4.42 | 11.40 | 11.88 | 1.26 | 30.04 | 11.30 | 3.00 |
| 41000 | 14.25 | 44.74 | 4.06 | 10.69 | 11.56 | 1.27 | 22.93 | 10.73 | 3.00 |
| 42000 | 13.53 | 45.47 | 4.18 | 10.33 | 13.86 | 1.25 | 23.10 | 10.76 | 3.19 |
| 43000 | 11.92 | 44.45 | 4.02 | 8.07 | 13.42 | 1.18 | 22.80 | 9.87 | 3.51 |
| 44000 | 9.39 | 50.77 | 3.58 | 6.65 | 31.53 | 1.13 | 24.03 | 9.52 | 4.29 |
| 45000 | 8.64 | 52.23 | 3.30 | 7.32 | 40.58 | 1.20 | 21.60 | 10.47 | 4.45 |
| 46000 | 9.03 | 48.79 | 3.70 | 9.56 | 30.78 | 1.27 | 20.41 | 10.34 | 3.87 |
| 47000 | 9.09 | 47.65 | 3.76 | 9.05 | 26.96 | 1.25 | 20.83 | 9.81 | 3.65 |
| 48000 | 10.13 | 45.43 | 3.37 | 7.29 | 16.35 | 1.20 | 19.98 | 10.22 | 3.92 |
| 49000 | 11.55 | 43.23 | 4.51 | 6.31 | 12.72 | 1.04 | 22.37 | 11.70 | 3.72 |
| 50000 | 12.31 | 42.28 | 10.01 | 6.63 | 15.08 | 0.85 | 19.25 | 12.63 | 3.97 |

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 = 4.25V, Id = 78mA @ Temperature = -45°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 7000 | 9.76 | 64.96 | 3.45 | 4.95 | 114.18 | 0.99 | 5.18 | -2.76 | 6.13 |
| 8000 | 21.18 | 64.80 | 8.35 | 9.13 | 60.90 | 1.01 | 15.54 | 5.26 | 2.61 |
| 9000 | 24.79 | 64.81 | 9.78 | 11.38 | 44.71 | 1.03 | 19.35 | 7.92 | 1.50 |
| 10000 | 27.17 | 63.81 | 11.76 | 11.31 | 31.96 | 0.99 | 19.73 | 9.47 | 1.19 |
| 11000 | 28.78 | 60.47 | 10.63 | 11.42 | 17.78 | 1.01 | 20.56 | 9.27 | 1.15 |
| 12000 | 29.97 | 62.74 | 8.59 | 14.13 | 19.61 | 1.10 | 20.93 | 9.95 | 1.20 |
| 13000 | 30.54 | 60.98 | 8.51 | 16.49 | 15.28 | 1.12 | 20.71 | 9.71 | 1.31 |
| 14000 | 30.42 | 58.50 | 10.77 | 11.55 | 11.92 | 1.01 | 21.53 | 9.86 | 1.22 |
| 15000 | 29.87 | 54.38 | 14.08 | 9.77 | 8.07 | 0.92 | 22.01 | 10.39 | 1.02 |
| 16000 | 29.33 | 52.34 | 16.62 | 9.92 | 6.97 | 0.91 | 23.27 | 10.68 | 0.97 |
| 17000 | 28.81 | 50.54 | 17.37 | 10.71 | 6.17 | 0.92 | 24.00 | 10.45 | 0.97 |
| 18000 | 28.33 | 50.69 | 15.51 | 11.41 | 6.65 | 0.95 | 22.47 | 10.05 | 0.95 |
| 19000 | 27.87 | 48.97 | 13.82 | 11.26 | 5.73 | 0.95 | 22.71 | 9.87 | 0.92 |
| 20000 | 27.57 | 47.98 | 14.47 | 10.66 | 5.33 | 0.93 | 22.16 | 10.56 | 0.95 |
| 21000 | 27.10 | 46.51 | 17.91 | 9.84 | 4.78 | 0.89 | 20.92 | 10.91 | 0.97 |
| 22000 | 25.78 | 46.48 | 14.19 | 8.46 | 5.19 | 0.87 | 22.57 | 11.60 | 1.00 |
| 23000 | 25.04 | 47.75 | 11.75 | 8.42 | 6.33 | 0.90 | 23.01 | 11.41 | 0.93 |
| 24000 | 24.33 | 48.46 | 11.22 | 8.50 | 7.42 | 0.91 | 23.31 | 12.08 | 1.01 |
| 25000 | 23.50 | 48.05 | 10.62 | 7.53 | 7.41 | 0.88 | 23.44 | 12.06 | 1.05 |
| 26000 | 22.54 | 47.91 | 8.61 | 6.82 | 7.43 | 0.89 | 22.55 | 11.93 | 1.21 |
| 27000 | 21.82 | 47.56 | 8.12 | 6.81 | 7.59 | 0.90 | 24.06 | 12.07 | 1.31 |
| 28000 | 21.24 | 46.60 | 8.54 | 6.88 | 7.38 | 0.90 | 21.35 | 12.08 | 1.37 |
| 29000 | 20.41 | 46.14 | 7.82 | 6.85 | 7.41 | 0.93 | 21.46 | 11.74 | 1.57 |
| 30000 | 19.91 | 45.36 | 7.59 | 8.26 | 7.57 | 1.01 | 21.55 | 12.03 | 1.70 |
| 31000 | 19.69 | 45.60 | 8.37 | 9.85 | 8.78 | 1.04 | 22.83 | 12.01 | 1.80 |
| 32000 | 19.16 | 46.73 | 8.75 | 8.51 | 10.34 | 0.98 | 22.43 | 11.44 | 1.81 |
| 33000 | 18.04 | 47.18 | 6.24 | 7.35 | 10.30 | 1.02 | 21.61 | 11.10 | 2.24 |
| 34000 | 17.12 | 45.44 | 4.53 | 7.64 | 8.12 | 1.13 | 22.13 | 11.03 | 2.75 |
| 35000 | 16.91 | 45.30 | 4.27 | 8.71 | 8.47 | 1.19 | 21.53 | 11.05 | 2.86 |
| 36000 | 15.94 | 46.15 | 3.93 | 7.97 | 9.84 | 1.17 | 22.13 | 10.79 | 3.06 |
| 37000 | 15.12 | 45.86 | 3.28 | 7.86 | 9.46 | 1.22 | 22.07 | 10.55 | 3.39 |
| 38000 | 14.64 | 45.55 | 3.29 | 8.64 | 9.92 | 1.26 | 21.26 | 11.02 | 3.48 |
| 39000 | 14.76 | 45.98 | 4.22 | 10.27 | 12.49 | 1.24 | 23.28 | 11.80 | 3.05 |
| 40000 | 15.25 | 43.59 | 4.43 | 11.69 | 9.63 | 1.26 | 24.01 | 12.37 | 2.93 |
| 41000 | 14.66 | 42.90 | 4.01 | 10.93 | 8.93 | 1.28 | 22.59 | 11.67 | 3.10 |
| 42000 | 14.02 | 42.88 | 4.23 | 10.56 | 9.87 | 1.25 | 22.11 | 11.81 | 3.17 |
| 43000 | 12.34 | 45.64 | 4.00 | 8.08 | 14.58 | 1.18 | 23.02 | 10.77 | 3.49 |
| 44000 | 9.71 | 51.52 | 3.45 | 6.54 | 32.13 | 1.13 | 23.13 | 10.34 | 4.41 |
| 45000 | 8.99 | 51.59 | 3.23 | 7.27 | 35.61 | 1.20 | 21.87 | 11.33 | 4.44 |
| 46000 | 9.53 | 47.80 | 3.85 | 9.69 | 26.65 | 1.26 | 20.79 | 11.17 | 4.18 |
| 47000 | 9.47 | 47.05 | 3.74 | 8.97 | 23.90 | 1.25 | 20.59 | 10.59 | 3.48 |
| 48000 | 10.33 | 45.32 | 3.14 | 7.14 | 14.88 | 1.21 | 22.06 | 11.07 | 4.74 |
| 49000 | 11.79 | 43.80 | 4.24 | 6.07 | 12.51 | 1.04 | 19.72 | 12.62 | 4.46 |
| 50000 | 12.70 | 42.30 | 9.91 | 6.35 | 14.16 | 0.84 | 17.65 | 13.64 | 3.97 |

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 = 4.00V, Id = 65mA @ Temperature = +85°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 7000 | 5.57 | 66.61 | 4.83 | 5.80 | 300.74 | 0.98 | 0.90 | -5.67 | 8.40 |
| 8000 | 17.61 | 61.73 | 10.07 | 10.24 | 71.13 | 0.99 | 12.20 | 2.23 | 4.35 |
| 9000 | 21.52 | 75.40 | 11.12 | 12.64 | 236.03 | 1.02 | 16.60 | 5.42 | 2.88 |
| 10000 | 24.07 | 59.56 | 12.40 | 12.85 | 29.39 | 1.00 | 17.28 | 7.31 | 2.45 |
| 11000 | 25.72 | 61.37 | 10.18 | 13.58 | 29.03 | 1.05 | 18.27 | 7.30 | 2.35 |
| 12000 | 26.90 | 60.85 | 8.28 | 17.42 | 23.16 | 1.13 | 17.77 | 7.97 | 2.40 |
| 13000 | 27.53 | 60.61 | 8.37 | 18.92 | 21.25 | 1.13 | 18.35 | 7.92 | 2.43 |
| 14000 | 27.47 | 55.28 | 10.61 | 12.90 | 11.99 | 1.03 | 18.99 | 8.00 | 2.39 |
| 15000 | 27.04 | 53.77 | 13.45 | 11.28 | 10.92 | 0.96 | 19.84 | 8.58 | 2.28 |
| 16000 | 26.52 | 50.76 | 16.04 | 11.61 | 8.47 | 0.95 | 20.83 | 8.72 | 2.22 |
| 17000 | 25.97 | 49.89 | 15.67 | 12.36 | 8.27 | 0.96 | 20.53 | 8.63 | 2.13 |
| 18000 | 25.40 | 49.14 | 14.37 | 12.69 | 8.11 | 0.97 | 19.84 | 8.34 | 2.12 |
| 19000 | 24.89 | 49.32 | 14.15 | 11.94 | 8.74 | 0.97 | 19.63 | 8.19 | 2.12 |
| 20000 | 24.45 | 47.38 | 15.95 | 11.01 | 7.41 | 0.94 | 19.94 | 8.91 | 2.07 |
| 21000 | 23.79 | 46.20 | 16.88 | 10.24 | 6.92 | 0.91 | 19.06 | 9.31 | 2.12 |
| 22000 | 22.70 | 46.97 | 14.28 | 9.39 | 8.26 | 0.91 | 20.55 | 10.11 | 2.11 |
| 23000 | 22.00 | 47.54 | 12.40 | 9.47 | 9.40 | 0.93 | 21.72 | 9.84 | 2.15 |
| 24000 | 21.25 | 48.18 | 11.40 | 9.51 | 10.92 | 0.95 | 21.30 | 10.58 | 2.22 |
| 25000 | 20.38 | 48.17 | 10.77 | 8.73 | 11.66 | 0.93 | 22.23 | 10.67 | 2.28 |
| 26000 | 19.56 | 47.81 | 9.55 | 7.96 | 11.64 | 0.93 | 20.93 | 10.55 | 2.41 |
| 27000 | 18.70 | 46.85 | 8.46 | 7.63 | 10.94 | 0.94 | 21.61 | 10.66 | 2.58 |
| 28000 | 18.01 | 46.53 | 7.86 | 7.87 | 11.23 | 0.97 | 20.05 | 10.85 | 2.59 |
| 29000 | 17.55 | 46.11 | 7.87 | 8.72 | 11.68 | 1.01 | 20.28 | 10.40 | 2.83 |
| 30000 | 17.16 | 45.65 | 8.06 | 10.21 | 12.27 | 1.05 | 21.26 | 10.71 | 3.00 |
| 31000 | 16.76 | 46.09 | 8.55 | 11.18 | 14.17 | 1.06 | 21.29 | 10.70 | 3.15 |
| 32000 | 16.08 | 46.81 | 8.01 | 10.30 | 16.01 | 1.06 | 21.80 | 10.22 | 3.31 |
| 33000 | 15.14 | 47.85 | 6.34 | 9.04 | 17.78 | 1.08 | 21.61 | 10.05 | 3.78 |
| 34000 | 14.34 | 47.43 | 4.96 | 8.60 | 16.41 | 1.14 | 20.59 | 9.93 | 4.19 |
| 35000 | 13.70 | 47.57 | 4.19 | 8.64 | 16.62 | 1.19 | 20.73 | 9.77 | 4.58 |
| 36000 | 12.94 | 48.09 | 3.97 | 8.61 | 18.90 | 1.20 | 21.08 | 9.44 | 4.79 |
| 37000 | 12.53 | 45.24 | 4.09 | 8.99 | 14.83 | 1.21 | 21.79 | 9.21 | 4.97 |
| 38000 | 12.14 | 45.65 | 4.58 | 9.39 | 17.46 | 1.19 | 21.67 | 9.79 | 4.90 |
| 39000 | 12.40 | 45.55 | 5.14 | 11.19 | 18.66 | 1.20 | 22.46 | 10.38 | 4.78 |
| 40000 | 12.68 | 46.01 | 5.33 | 12.24 | 20.00 | 1.21 | 23.15 | 11.29 | 4.71 |
| 41000 | 12.11 | 45.13 | 5.04 | 10.64 | 18.49 | 1.20 | 22.56 | 10.50 | 4.75 |
| 42000 | 10.86 | 46.94 | 4.70 | 9.05 | 24.18 | 1.17 | 21.14 | 10.44 | 5.20 |
| 43000 | 9.23 | 46.92 | 4.65 | 7.90 | 27.43 | 1.13 | 21.33 | 9.16 | 5.54 |
| 44000 | 7.49 | 56.56 | 4.78 | 7.37 | 101.08 | 1.09 | 21.10 | 8.82 | 6.35 |
| 45000 | 7.11 | 53.24 | 4.42 | 7.81 | 70.97 | 1.14 | 20.06 | 9.23 | 5.80 |
| 46000 | 6.98 | 50.62 | 4.19 | 9.05 | 54.76 | 1.21 | 21.11 | 9.24 | 5.75 |
| 47000 | 7.42 | 48.47 | 4.35 | 9.44 | 42.91 | 1.21 | 21.02 | 8.78 | 6.47 |
| 48000 | 8.97 | 46.09 | 5.06 | 7.90 | 28.50 | 1.10 | 21.36 | 9.79 | 5.55 |
| 49000 | 10.01 | 44.04 | 7.25 | 6.90 | 23.03 | 0.94 | 20.54 | 10.85 | 5.83 |
| 50000 | 9.69 | 44.81 | 12.18 | 6.94 | 30.86 | 0.84 | 22.03 | 11.51 | 6.62 |

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 = 3.75V, Id = 60mA @ Temperature = +85°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 7000 | 4.93 | 70.49 | 4.64 | 5.79 | 494.67 | 0.99 | -0.98 | -6.18 | 8.51 |
| 8000 | 17.35 | 62.79 | 10.33 | 10.30 | 83.56 | 0.99 | 11.46 | 1.57 | 4.15 |
| 9000 | 21.22 | 66.65 | 11.27 | 12.74 | 89.59 | 1.02 | 16.30 | 4.77 | 2.99 |
| 10000 | 23.76 | 61.99 | 12.42 | 12.92 | 40.37 | 1.00 | 16.60 | 6.81 | 2.44 |
| 11000 | 25.39 | 59.15 | 10.02 | 13.63 | 23.26 | 1.05 | 17.66 | 6.79 | 2.31 |
| 12000 | 26.57 | 60.81 | 8.07 | 17.37 | 23.73 | 1.14 | 17.52 | 7.47 | 2.46 |
| 13000 | 27.23 | 59.82 | 8.12 | 19.31 | 19.89 | 1.14 | 17.75 | 7.44 | 2.51 |
| 14000 | 27.21 | 54.43 | 10.31 | 13.10 | 11.15 | 1.04 | 18.31 | 7.55 | 2.39 |
| 15000 | 26.80 | 53.32 | 13.11 | 11.38 | 10.64 | 0.97 | 19.27 | 8.15 | 2.28 |
| 16000 | 26.27 | 50.97 | 15.64 | 11.67 | 8.93 | 0.95 | 19.73 | 8.28 | 2.23 |
| 17000 | 25.71 | 50.01 | 15.38 | 12.46 | 8.64 | 0.97 | 19.92 | 8.18 | 2.13 |
| 18000 | 25.14 | 49.07 | 14.15 | 12.81 | 8.28 | 0.98 | 19.38 | 7.89 | 2.13 |
| 19000 | 24.62 | 48.33 | 13.91 | 12.05 | 8.04 | 0.97 | 19.10 | 7.61 | 2.13 |
| 20000 | 24.20 | 47.16 | 15.66 | 11.11 | 7.44 | 0.94 | 19.14 | 8.33 | 2.17 |
| 21000 | 23.56 | 45.86 | 16.78 | 10.37 | 6.86 | 0.92 | 18.58 | 8.87 | 2.13 |
| 22000 | 22.50 | 46.44 | 14.36 | 9.51 | 7.99 | 0.91 | 19.61 | 9.55 | 2.17 |
| 23000 | 21.80 | 47.22 | 12.41 | 9.57 | 9.30 | 0.93 | 20.32 | 9.29 | 2.10 |
| 24000 | 21.05 | 47.08 | 11.43 | 9.59 | 9.89 | 0.95 | 20.69 | 10.03 | 2.43 |
| 25000 | 20.20 | 47.98 | 10.75 | 8.83 | 11.68 | 0.94 | 21.96 | 10.13 | 2.31 |
| 26000 | 19.37 | 48.10 | 9.54 | 8.04 | 12.31 | 0.93 | 20.58 | 10.01 | 2.42 |
| 27000 | 18.52 | 47.54 | 8.46 | 7.67 | 12.11 | 0.94 | 21.61 | 10.21 | 2.57 |
| 28000 | 17.82 | 46.91 | 7.84 | 7.91 | 12.01 | 0.98 | 22.38 | 10.19 | 2.78 |
| 29000 | 17.35 | 46.67 | 7.81 | 8.76 | 12.74 | 1.02 | 20.48 | 9.85 | 2.90 |
| 30000 | 16.96 | 46.38 | 7.97 | 10.18 | 13.61 | 1.05 | 20.09 | 10.15 | 2.99 |
| 31000 | 16.55 | 46.88 | 8.44 | 11.12 | 15.81 | 1.06 | 20.55 | 10.13 | 3.10 |
| 32000 | 15.88 | 47.28 | 7.93 | 10.28 | 17.23 | 1.06 | 20.50 | 9.56 | 3.36 |
| 33000 | 14.91 | 48.08 | 6.28 | 8.98 | 18.60 | 1.09 | 21.33 | 9.39 | 3.77 |
| 34000 | 14.10 | 48.07 | 4.91 | 8.51 | 17.99 | 1.14 | 21.38 | 9.35 | 4.26 |
| 35000 | 13.45 | 47.05 | 4.14 | 8.47 | 15.93 | 1.19 | 21.36 | 9.17 | 4.62 |
| 36000 | 12.69 | 46.80 | 3.92 | 8.42 | 16.60 | 1.20 | 20.91 | 8.97 | 4.79 |
| 37000 | 12.28 | 45.62 | 4.04 | 8.84 | 15.74 | 1.20 | 21.34 | 8.75 | 5.13 |
| 38000 | 11.90 | 45.75 | 4.54 | 9.33 | 17.96 | 1.19 | 20.97 | 9.35 | 5.00 |
| 39000 | 12.17 | 45.38 | 5.09 | 11.08 | 18.63 | 1.20 | 21.15 | 9.85 | 4.79 |
| 40000 | 12.46 | 44.14 | 5.29 | 12.13 | 16.50 | 1.21 | 23.23 | 10.88 | 4.76 |
| 41000 | 11.88 | 44.28 | 5.03 | 10.54 | 17.18 | 1.20 | 20.63 | 9.99 | 4.71 |
| 42000 | 10.64 | 45.26 | 4.67 | 8.96 | 20.30 | 1.17 | 20.51 | 9.92 | 5.20 |
| 43000 | 9.02 | 47.79 | 4.61 | 7.88 | 30.91 | 1.13 | 21.71 | 8.81 | 5.54 |
| 44000 | 7.30 | 54.06 | 4.74 | 7.37 | 77.07 | 1.09 | 20.57 | 8.64 | 5.44 |
| 45000 | 6.93 | 52.65 | 4.39 | 7.81 | 67.53 | 1.14 | 19.44 | 8.93 | 6.24 |
| 46000 | 6.80 | 49.89 | 4.18 | 9.03 | 51.38 | 1.21 | 19.44 | 8.95 | 5.76 |
| 47000 | 7.25 | 47.65 | 4.34 | 9.45 | 39.80 | 1.22 | 21.69 | 8.58 | 6.55 |
| 48000 | 8.80 | 45.73 | 5.07 | 7.96 | 27.97 | 1.10 | 22.33 | 9.50 | 5.79 |
| 49000 | 9.83 | 44.34 | 7.31 | 6.99 | 24.53 | 0.95 | 19.24 | 10.55 | 6.19 |
| 50000 | 9.48 | 44.82 | 12.23 | 7.03 | 31.86 | 0.85 | 21.36 | 11.18 | 6.18 |

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 = 4.25V, Id = 69mA @ Temperature = +85°C

| FREQ | Gain | Isolation | Input Return Loss | Output Return Loss | Stability | | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
| | | | | | K | Measure | | | |
| (MHz) | (dB) | (dB) | (dB) | (dB) | K | Measure | (dBm) | (dBm) | (dB) |
| 7000 | 6.12 | 71.20 | 5.02 | 5.80 | 489.76 | 0.97 | 2.88 | -5.10 | 8.32 |
| 8000 | 17.83 | 63.89 | 9.85 | 10.17 | 88.41 | 1.00 | 13.18 | 2.96 | 4.24 |
| 9000 | 21.77 | 64.96 | 10.97 | 12.54 | 68.57 | 1.02 | 17.19 | 6.02 | 2.88 |
| 10000 | 24.34 | 60.01 | 12.38 | 12.74 | 29.97 | 1.00 | 17.64 | 7.76 | 2.45 |
| 11000 | 26.00 | 59.24 | 10.31 | 13.57 | 22.07 | 1.05 | 18.85 | 7.75 | 2.30 |
| 12000 | 27.17 | 60.87 | 8.48 | 17.46 | 22.65 | 1.12 | 18.67 | 8.42 | 2.36 |
| 13000 | 27.78 | 59.41 | 8.59 | 18.63 | 18.12 | 1.12 | 18.94 | 8.34 | 2.40 |
| 14000 | 27.68 | 56.75 | 10.90 | 12.77 | 13.93 | 1.02 | 19.55 | 8.39 | 2.39 |
| 15000 | 27.25 | 54.19 | 13.76 | 11.20 | 11.20 | 0.96 | 20.41 | 8.85 | 2.31 |
| 16000 | 26.73 | 51.64 | 16.37 | 11.52 | 9.16 | 0.95 | 21.41 | 9.11 | 2.22 |
| 17000 | 26.18 | 49.83 | 15.93 | 12.27 | 8.02 | 0.96 | 21.46 | 9.02 | 2.14 |
| 18000 | 25.62 | 49.53 | 14.59 | 12.60 | 8.27 | 0.97 | 20.71 | 8.87 | 2.13 |
| 19000 | 25.10 | 48.88 | 14.34 | 11.87 | 8.11 | 0.96 | 20.66 | 8.60 | 2.11 |
| 20000 | 24.65 | 47.36 | 16.21 | 10.92 | 7.21 | 0.93 | 20.34 | 9.31 | 2.15 |
| 21000 | 23.98 | 46.71 | 16.94 | 10.15 | 7.17 | 0.91 | 19.57 | 9.69 | 2.08 |
| 22000 | 22.87 | 47.27 | 14.20 | 9.30 | 8.35 | 0.91 | 20.77 | 10.48 | 2.03 |
| 23000 | 22.17 | 47.40 | 12.34 | 9.40 | 9.06 | 0.93 | 22.55 | 10.20 | 2.12 |
| 24000 | 21.40 | 48.18 | 11.40 | 9.45 | 10.71 | 0.94 | 21.17 | 11.08 | 2.23 |
| 25000 | 20.53 | 48.09 | 10.79 | 8.66 | 11.34 | 0.93 | 22.24 | 11.17 | 2.27 |
| 26000 | 19.71 | 48.71 | 9.57 | 7.90 | 12.66 | 0.92 | 20.98 | 11.06 | 2.44 |
| 27000 | 18.85 | 47.80 | 8.51 | 7.60 | 11.98 | 0.94 | 22.78 | 11.26 | 2.61 |
| 28000 | 18.17 | 45.80 | 7.88 | 7.83 | 10.11 | 0.97 | 22.39 | 11.26 | 2.91 |
| 29000 | 17.70 | 46.56 | 7.95 | 8.71 | 12.14 | 1.01 | 20.95 | 10.91 | 2.90 |
| 30000 | 17.32 | 46.93 | 8.13 | 10.21 | 14.01 | 1.05 | 21.13 | 11.21 | 2.93 |
| 31000 | 16.93 | 47.55 | 8.61 | 11.18 | 16.49 | 1.06 | 21.34 | 11.20 | 2.96 |
| 32000 | 16.26 | 47.62 | 8.09 | 10.31 | 17.29 | 1.05 | 21.18 | 10.73 | 3.34 |
| 33000 | 15.32 | 48.60 | 6.39 | 9.08 | 19.08 | 1.08 | 20.29 | 10.60 | 3.68 |
| 34000 | 14.54 | 46.56 | 5.01 | 8.72 | 14.62 | 1.14 | 22.64 | 10.39 | 4.25 |
| 35000 | 13.93 | 47.34 | 4.24 | 8.81 | 15.98 | 1.19 | 20.90 | 10.11 | 4.60 |
| 36000 | 13.16 | 47.49 | 4.01 | 8.78 | 17.43 | 1.21 | 20.30 | 9.87 | 4.76 |
| 37000 | 12.75 | 46.19 | 4.13 | 9.10 | 16.27 | 1.21 | 21.07 | 9.61 | 5.03 |
| 38000 | 12.33 | 46.24 | 4.61 | 9.48 | 18.37 | 1.19 | 21.52 | 10.28 | 4.88 |
| 39000 | 12.59 | 46.41 | 5.19 | 11.27 | 20.32 | 1.20 | 22.63 | 10.42 | 4.67 |
| 40000 | 12.88 | 45.66 | 5.36 | 12.32 | 18.87 | 1.21 | 22.34 | 11.73 | 4.60 |
| 41000 | 12.30 | 45.42 | 5.09 | 10.70 | 18.82 | 1.20 | 21.75 | 10.87 | 4.66 |
| 42000 | 11.06 | 44.51 | 4.73 | 9.04 | 17.94 | 1.17 | 21.41 | 10.76 | 5.18 |
| 43000 | 9.42 | 47.41 | 4.67 | 7.90 | 28.51 | 1.13 | 22.09 | 9.46 | 5.49 |
| 44000 | 7.66 | 54.92 | 4.80 | 7.34 | 82.03 | 1.09 | 20.21 | 9.09 | 6.21 |
| 45000 | 7.27 | 53.43 | 4.42 | 7.79 | 71.31 | 1.14 | 21.70 | 9.48 | 5.95 |
| 46000 | 7.13 | 49.77 | 4.20 | 9.06 | 48.93 | 1.21 | 20.56 | 9.39 | 5.85 |
| 47000 | 7.56 | 48.96 | 4.36 | 9.42 | 44.71 | 1.21 | 20.62 | 9.01 | 6.69 |
| 48000 | 9.11 | 46.45 | 5.04 | 7.86 | 29.09 | 1.10 | 19.04 | 10.01 | 6.47 |
| 49000 | 10.17 | 44.56 | 7.20 | 6.79 | 23.76 | 0.94 | 21.55 | 11.07 | 6.12 |
| 50000 | 9.87 | 44.31 | 12.09 | 6.82 | 28.32 | 0.84 | 21.67 | 11.82 | 5.76 |