

Typical Performance Data

| FREQ. (MHz) | INSERTION LOSS | | | INPUT RETURN LOSS | | | OUTPUT RETURN LOSS | | |
|--------------------|----------------|--------|---------|-------------------|--------|---------|--------------------|--------|---------|
| | (dB) | | | (dB) | | | (dB) | | |
| | @-55°C | @+25°C | @+125°C | @-55°C | @+25°C | @+125°C | @-55°C | @+25°C | @+125°C |
| 10 | 0.05 | 0.05 | 0.07 | 59.63 | 47.28 | 49.12 | 48.00 | 53.62 | 44.39 |
| 100 | 0.04 | 0.05 | 0.07 | 54.02 | 48.27 | 45.82 | 50.80 | 46.04 | 43.37 |
| 200 | 0.04 | 0.06 | 0.08 | 40.87 | 40.93 | 40.98 | 39.17 | 39.19 | 38.58 |
| 250 | 0.04 | 0.06 | 0.09 | 40.27 | 42.01 | 42.52 | 37.96 | 38.88 | 38.74 |
| 300 | 0.05 | 0.07 | 0.10 | 37.72 | 39.04 | 39.12 | 35.20 | 36.26 | 36.58 |
| 350 | 0.05 | 0.08 | 0.11 | 36.54 | 38.41 | 39.07 | 34.46 | 35.15 | 35.19 |
| 400 | 0.05 | 0.08 | 0.12 | 37.81 | 38.96 | 39.29 | 34.46 | 34.67 | 34.89 |
| 500 | 0.06 | 0.09 | 0.13 | 37.51 | 39.07 | 40.51 | 33.57 | 33.15 | 32.90 |
| 550 | 0.06 | 0.10 | 0.14 | 37.02 | 38.59 | 39.72 | 32.84 | 32.53 | 32.27 |
| 600 | 0.06 | 0.10 | 0.15 | 37.14 | 39.52 | 42.02 | 32.31 | 31.98 | 31.67 |
| 650 | 0.07 | 0.11 | 0.15 | 38.82 | 41.81 | 44.11 | 32.40 | 32.25 | 31.90 |
| 700 | 0.07 | 0.11 | 0.16 | 38.18 | 41.28 | 44.33 | 31.68 | 31.52 | 31.26 |
| 750 | 0.07 | 0.12 | 0.17 | 39.12 | 43.36 | 48.11 | 31.86 | 31.61 | 31.36 |
| 780 | 0.08 | 0.12 | 0.18 | 38.94 | 42.93 | 46.13 | 31.47 | 31.26 | 31.09 |
| 800 | 0.08 | 0.13 | 0.18 | 38.35 | 42.08 | 45.62 | 30.98 | 30.81 | 30.63 |
| 820 | 0.08 | 0.13 | 0.18 | 37.96 | 41.78 | 46.90 | 30.73 | 30.49 | 30.33 |
| 850 | 0.09 | 0.13 | 0.19 | 38.15 | 42.59 | 51.88 | 30.70 | 30.37 | 30.17 |
| 900 | 0.09 | 0.14 | 0.20 | 39.29 | 44.47 | 63.65 | 30.31 | 30.01 | 29.77 |
| 920 | 0.09 | 0.14 | 0.20 | 38.76 | 43.45 | 58.19 | 30.00 | 29.64 | 29.43 |
| 960 | 0.10 | 0.15 | 0.21 | 37.64 | 41.55 | 49.13 | 29.81 | 29.36 | 29.11 |
| 1000 | 0.10 | 0.15 | 0.21 | 37.62 | 41.14 | 45.96 | 29.76 | 29.34 | 29.05 |
| 1020 | 0.10 | 0.15 | 0.22 | 37.57 | 41.07 | 45.41 | 29.51 | 29.10 | 28.85 |
| 1050 | 0.10 | 0.15 | 0.22 | 36.77 | 40.00 | 44.14 | 29.05 | 28.65 | 28.46 |
| 1090 | 0.10 | 0.16 | 0.22 | 35.59 | 37.93 | 41.02 | 28.86 | 28.54 | 28.30 |
| 1150 | 0.11 | 0.17 | 0.24 | 35.29 | 37.38 | 40.00 | 28.00 | 27.75 | 27.59 |
| 1200 | 0.12 | 0.18 | 0.24 | 33.74 | 35.31 | 37.56 | 27.69 | 27.39 | 27.22 |
| 1250 | 0.12 | 0.18 | 0.25 | 32.75 | 34.03 | 35.86 | 27.47 | 27.26 | 27.10 |
| 1400 | 0.13 | 0.19 | 0.27 | 28.86 | 29.98 | 30.94 | 25.91 | 25.91 | 25.73 |
| 1500 | 0.14 | 0.21 | 0.28 | 26.63 | 27.48 | 28.17 | 25.13 | 25.12 | 24.88 |
| 1550 | 0.14 | 0.21 | 0.29 | 26.02 | 26.78 | 27.38 | 24.70 | 24.63 | 24.39 |
| 4800 | 0.86 | 1.04 | 1.27 | 14.00 | 14.51 | 14.99 | 14.61 | 15.17 | 15.67 |
| 4900 | 0.91 | 1.09 | 1.34 | 14.31 | 14.99 | 15.77 | 14.83 | 15.51 | 16.27 |
| 5000 | 0.95 | 1.15 | 1.42 | 15.01 | 15.92 | 17.11 | 15.62 | 16.52 | 17.68 |
| 5440 | 1.63 | 2.05 | 2.67 | 16.48 | 15.44 | 14.08 | 19.18 | 17.18 | 14.89 |
| 5500 | 1.94 | 2.45 | 3.20 | 14.09 | 13.13 | 11.96 | 15.00 | 13.46 | 11.69 |
| 5600 | 2.77 | 3.50 | 4.56 | 10.35 | 9.63 | 8.82 | 10.01 | 8.90 | 7.65 |
| 6000 | 12.72 | 14.59 | 16.82 | 2.37 | 2.43 | 2.54 | 1.53 | 1.49 | 1.47 |
| 6100 | 16.68 | 18.66 | 20.97 | 1.75 | 1.87 | 2.01 | 1.07 | 1.11 | 1.15 |
| 6200 | 20.87 | 22.91 | 25.24 | 1.34 | 1.49 | 1.63 | 0.82 | 0.90 | 0.96 |
| 6400 | 29.51 | 31.57 | 33.88 | 0.82 | 0.98 | 1.12 | 0.57 | 0.67 | 0.75 |
| 6700 | 42.43 | 44.34 | 46.36 | 0.46 | 0.62 | 0.74 | 0.37 | 0.47 | 0.57 |
| 7000 | 52.55 | 53.46 | 54.14 | 0.26 | 0.42 | 0.54 | 0.26 | 0.37 | 0.48 |
| 7200 | 55.05 | 55.16 | 55.05 | 0.18 | 0.34 | 0.46 | 0.20 | 0.31 | 0.44 |
| 7500 | 53.71 | 53.58 | 53.52 | 0.12 | 0.28 | 0.41 | 0.14 | 0.26 | 0.41 |
| 7800 | 52.73 | 52.71 | 52.80 | 0.07 | 0.24 | 0.39 | 0.13 | 0.27 | 0.46 |
| 8000 | 52.26 | 52.47 | 52.37 | 0.04 | 0.22 | 0.39 | 0.15 | 0.30 | 0.50 |
| 8100 | 51.95 | 52.28 | 52.31 | 0.05 | 0.22 | 0.40 | 0.14 | 0.29 | 0.50 |
| 8200 | 51.62 | 51.85 | 51.82 | 0.05 | 0.23 | 0.42 | 0.15 | 0.30 | 0.51 |
| 8300 | 51.76 | 51.87 | 52.22 | 0.05 | 0.23 | 0.43 | 0.15 | 0.31 | 0.53 |
| 8400 | 52.12 | 52.51 | 52.88 | 0.04 | 0.23 | 0.44 | 0.14 | 0.30 | 0.54 |
| 8500 | 52.06 | 52.40 | 52.64 | 0.03 | 0.22 | 0.44 | 0.15 | 0.30 | 0.54 |
| 8600 | 50.92 | 51.14 | 51.14 | 0.02 | 0.22 | 0.44 | 0.16 | 0.32 | 0.57 |
| 8700 | 51.09 | 51.25 | 51.33 | 0.00 | 0.21 | 0.45 | 0.13 | 0.30 | 0.59 |
| 9000 | 51.38 | 51.74 | 51.72 | 0.02 | 0.23 | 0.51 | 0.15 | 0.33 | 0.61 |
| 9300 | 49.05 | 48.53 | 48.39 | 0.05 | 0.28 | 0.58 | 0.20 | 0.37 | 0.66 |
| 10000 | 45.20 | 44.92 | 44.82 | 0.07 | 0.31 | 0.69 | 0.25 | 0.41 | 0.69 |
| 12500 | 30.14 | 30.32 | 30.43 | 0.22 | 0.46 | 0.67 | 0.10 | 0.21 | 0.31 |
| 15000 | 29.08 | 30.60 | 30.18 | 0.48 | 0.40 | 0.57 | 0.11 | 0.08 | 0.42 |
| 16000 | 28.39 | 28.41 | 28.48 | 0.11 | 0.20 | 0.66 | 0.13 | 0.12 | 0.54 |
| 18000 | 23.79 | 23.66 | 23.88 | 0.19 | 0.22 | 0.84 | 0.06 | 0.23 | 0.64 |

Typical Performance Data

| FREQ. (MHz) | GROUP DELAY | | |
|--------------------|-------------|--------|---------|
| | (nsec) | | |
| | @-55°C | @+25°C | @+125°C |
| 10 | 0.12 | 0.15 | 0.13 |
| 50 | 0.12 | 0.14 | 0.13 |
| 100 | 0.13 | 0.13 | 0.13 |
| 200 | 0.13 | 0.13 | 0.13 |
| 300 | 0.13 | 0.13 | 0.13 |
| 400 | 0.13 | 0.13 | 0.13 |
| 500 | 0.13 | 0.13 | 0.13 |
| 600 | 0.13 | 0.13 | 0.13 |
| 700 | 0.13 | 0.13 | 0.13 |
| 800 | 0.13 | 0.13 | 0.13 |
| 900 | 0.13 | 0.13 | 0.13 |
| 1000 | 0.13 | 0.13 | 0.13 |
| 1100 | 0.13 | 0.13 | 0.13 |
| 1200 | 0.13 | 0.13 | 0.13 |
| 1300 | 0.13 | 0.13 | 0.13 |
| 1400 | 0.13 | 0.13 | 0.14 |
| 1500 | 0.13 | 0.13 | 0.14 |
| 1600 | 0.13 | 0.13 | 0.14 |
| 1700 | 0.13 | 0.14 | 0.14 |
| 1800 | 0.14 | 0.14 | 0.14 |
| 1900 | 0.14 | 0.14 | 0.14 |
| 2000 | 0.14 | 0.14 | 0.14 |
| 2100 | 0.14 | 0.14 | 0.14 |
| 2200 | 0.14 | 0.14 | 0.15 |
| 2300 | 0.15 | 0.15 | 0.15 |
| 2400 | 0.15 | 0.15 | 0.15 |
| 2500 | 0.15 | 0.15 | 0.15 |
| 2600 | 0.15 | 0.15 | 0.15 |
| 2700 | 0.15 | 0.15 | 0.16 |
| 2800 | 0.16 | 0.16 | 0.16 |
| 2900 | 0.16 | 0.16 | 0.16 |
| 3000 | 0.16 | 0.16 | 0.17 |
| 3100 | 0.16 | 0.17 | 0.17 |
| 3200 | 0.17 | 0.17 | 0.17 |
| 3300 | 0.17 | 0.17 | 0.18 |
| 3400 | 0.18 | 0.18 | 0.18 |
| 3500 | 0.18 | 0.18 | 0.19 |
| 3600 | 0.19 | 0.19 | 0.19 |
| 4000 | 0.21 | 0.21 | 0.22 |
| 4500 | 0.26 | 0.26 | 0.27 |
| 4800 | 0.30 | 0.31 | 0.32 |