

Typical Performance Data

| FREQ. (MHz) | INSERTION LOSS | | | INPUT RETURN LOSS | | | OUTPUT RETURN LOSS | | |
|--------------------|----------------|--------|--------|-------------------|--------|--------|--------------------|--------|--------|
| | (dB) | | | (dB) | | | (dB) | | |
| | @-40°C | @+25°C | @+85°C | @-40°C | @+25°C | @+85°C | @-40°C | @+25°C | @+85°C |
| 100 | 107.69 | 111.45 | 114.91 | 0.02 | 0.01 | 0.00 | 0.02 | 0.01 | 0.00 |
| 200 | 114.34 | 111.66 | 112.29 | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.01 |
| 300 | 105.57 | 109.90 | 110.11 | 0.01 | 0.02 | 0.03 | 0.01 | 0.02 | 0.02 |
| 400 | 117.84 | 122.28 | 108.27 | 0.03 | 0.04 | 0.05 | 0.02 | 0.03 | 0.03 |
| 500 | 109.57 | 115.68 | 109.54 | 0.03 | 0.05 | 0.06 | 0.03 | 0.04 | 0.04 |
| 600 | 123.92 | 130.66 | 111.40 | 0.04 | 0.06 | 0.07 | 0.04 | 0.06 | 0.06 |
| 800 | 117.15 | 116.15 | 107.70 | 0.05 | 0.07 | 0.08 | 0.05 | 0.07 | 0.08 |
| 1000 | 111.33 | 117.44 | 117.94 | 0.05 | 0.07 | 0.09 | 0.04 | 0.07 | 0.08 |
| 1500 | 112.98 | 107.34 | 118.26 | 0.03 | 0.07 | 0.09 | 0.03 | 0.06 | 0.07 |
| 2000 | 109.98 | 107.69 | 108.33 | 0.01 | 0.06 | 0.09 | 0.00 | 0.04 | 0.06 |
| 2500 | 105.66 | 121.96 | 110.64 | 0.00 | 0.05 | 0.09 | 0.01 | 0.04 | 0.07 |
| 3000 | 112.16 | 118.83 | 109.43 | 0.01 | 0.07 | 0.12 | 0.00 | 0.06 | 0.11 |
| 3500 | 113.27 | 127.44 | 112.85 | 0.03 | 0.10 | 0.16 | 0.03 | 0.10 | 0.15 |
| 4000 | 117.16 | 115.15 | 130.80 | 0.06 | 0.14 | 0.20 | 0.06 | 0.13 | 0.18 |
| 4500 | 115.83 | 113.42 | 118.94 | 0.10 | 0.18 | 0.24 | 0.09 | 0.16 | 0.21 |
| 5000 | 111.80 | 112.54 | 110.59 | 0.13 | 0.21 | 0.27 | 0.12 | 0.19 | 0.25 |
| 5500 | 118.37 | 114.09 | 116.47 | 0.15 | 0.23 | 0.29 | 0.15 | 0.22 | 0.27 |
| 6000 | 109.89 | 111.92 | 111.64 | 0.17 | 0.24 | 0.30 | 0.16 | 0.22 | 0.26 |
| 6500 | 107.70 | 115.57 | 107.46 | 0.16 | 0.24 | 0.29 | 0.15 | 0.21 | 0.24 |
| 7000 | 117.54 | 116.38 | 112.22 | 0.15 | 0.23 | 0.27 | 0.14 | 0.20 | 0.23 |
| 8000 | 115.56 | 105.97 | 117.48 | 0.11 | 0.18 | 0.22 | 0.10 | 0.16 | 0.18 |
| 9000 | 87.80 | 86.22 | 85.69 | 0.06 | 0.14 | 0.18 | 0.05 | 0.13 | 0.16 |
| 9250 | 54.75 | 53.14 | 51.72 | 0.11 | 0.22 | 0.30 | 0.10 | 0.20 | 0.27 |
| 9356 | 32.88 | 30.44 | 28.21 | 0.26 | 0.44 | 0.61 | 0.24 | 0.41 | 0.57 |
| 9390 | 23.37 | 20.43 | 17.66 | 0.45 | 0.73 | 1.05 | 0.42 | 0.68 | 0.98 |
| 9420 | 13.22 | 9.85 | 6.94 | 1.09 | 1.97 | 3.42 | 1.05 | 1.90 | 3.33 |
| 9442 | 5.40 | 3.23 | 2.22 | 3.81 | 7.72 | 13.90 | 3.77 | 7.62 | 13.82 |
| 9500 | 0.98 | 1.09 | 1.18 | 32.24 | 34.68 | 28.85 | 30.47 | 36.09 | 28.75 |
| 9550 | 0.82 | 0.94 | 1.04 | 21.07 | 23.07 | 25.70 | 20.94 | 22.65 | 25.04 |
| 9600 | 0.72 | 0.86 | 0.97 | 27.18 | 24.00 | 22.34 | 26.01 | 23.74 | 22.36 |
| 9650 | 0.70 | 0.83 | 0.93 | 19.09 | 20.66 | 22.21 | 19.30 | 21.43 | 24.04 |
| 9700 | 0.64 | 0.78 | 0.90 | 26.15 | 24.76 | 22.98 | 33.98 | 29.86 | 25.66 |
| 9750 | 0.66 | 0.79 | 0.90 | 19.87 | 20.64 | 22.04 | 20.57 | 21.14 | 22.03 |
| 9800 | 0.63 | 0.77 | 0.89 | 27.06 | 38.73 | 33.64 | 26.42 | 30.06 | 27.63 |
| 9850 | 0.65 | 0.80 | 0.93 | 23.91 | 22.62 | 22.10 | 23.51 | 22.37 | 21.99 |
| 9900 | 0.66 | 0.81 | 0.95 | 26.69 | 36.11 | 36.87 | 26.89 | 35.57 | 32.92 |
| 9950 | 0.73 | 0.91 | 1.06 | 23.80 | 22.13 | 21.86 | 23.56 | 21.85 | 21.51 |
| 10000 | 0.82 | 1.03 | 1.25 | 42.20 | 29.48 | 24.71 | 40.32 | 29.56 | 24.77 |
| 10054 | 1.59 | 3.12 | 5.68 | 12.93 | 6.91 | 3.91 | 13.61 | 7.15 | 4.02 |
| 10078 | 6.22 | 10.06 | 13.66 | 2.81 | 1.73 | 1.35 | 2.88 | 1.75 | 1.34 |
| 10108 | 16.29 | 19.93 | 23.05 | 0.78 | 0.76 | 0.78 | 0.78 | 0.75 | 0.75 |
| 10146 | 27.31 | 30.24 | 32.77 | 0.43 | 0.51 | 0.56 | 0.41 | 0.48 | 0.52 |
| 10250 | 48.79 | 50.74 | 52.45 | 0.23 | 0.31 | 0.35 | 0.23 | 0.30 | 0.33 |
| 10500 | 80.25 | 81.45 | 82.85 | 0.10 | 0.18 | 0.22 | 0.11 | 0.18 | 0.21 |
| 11000 | 112.82 | 127.18 | 114.78 | 0.03 | 0.12 | 0.18 | 0.05 | 0.12 | 0.17 |
| 11500 | 107.66 | 105.19 | 115.24 | 0.01 | 0.11 | 0.18 | 0.01 | 0.10 | 0.16 |
| 12000 | 107.98 | 112.05 | 117.50 | 0.00 | 0.12 | 0.22 | 0.00 | 0.10 | 0.18 |
| 12500 | 104.25 | 101.83 | 109.52 | 0.00 | 0.14 | 0.26 | 0.00 | 0.12 | 0.22 |
| 13000 | 111.93 | 113.48 | 115.66 | 0.01 | 0.16 | 0.30 | 0.01 | 0.14 | 0.27 |
| 13500 | 113.65 | 112.03 | 105.75 | 0.02 | 0.18 | 0.33 | 0.01 | 0.15 | 0.29 |
| 14000 | 116.31 | 115.67 | 104.93 | 0.04 | 0.20 | 0.35 | 0.03 | 0.18 | 0.32 |
| 14500 | 116.59 | 116.61 | 114.30 | 0.05 | 0.22 | 0.39 | 0.04 | 0.20 | 0.35 |
| 15000 | 103.94 | 111.94 | 114.32 | 0.06 | 0.23 | 0.41 | 0.05 | 0.21 | 0.38 |
| 15500 | 109.16 | 114.99 | 112.98 | 0.07 | 0.25 | 0.44 | 0.06 | 0.23 | 0.41 |
| 16000 | 109.97 | 110.74 | 106.78 | 0.08 | 0.27 | 0.46 | 0.08 | 0.25 | 0.44 |
| 18000 | 129.00 | 111.61 | 118.78 | 0.14 | 0.34 | 0.53 | 0.15 | 0.33 | 0.51 |
| 20000 | 100.93 | 100.58 | 95.31 | 0.04 | 0.20 | 0.30 | 0.07 | 0.20 | 0.30 |
| 22000 | 113.70 | 113.28 | 110.22 | 0.01 | 0.17 | 0.29 | 0.05 | 0.20 | 0.32 |
| 25000 | 106.08 | 107.31 | 101.23 | 0.21 | 0.50 | 0.82 | 0.30 | 0.61 | 1.00 |
| 26500 | 103.44 | 113.19 | 116.07 | 0.45 | 0.94 | 1.45 | 0.67 | 1.17 | 1.73 |

Typical Performance Data

| FREQ. (MHz) | GROUP DELAY | | |
|--------------------|-------------|--------|--------|
| | (nsec) | | |
| | @-40°C | @+25°C | @+85°C |
| 9500 | 5.60 | 5.27 | 5.03 |
| 9510 | 5.26 | 5.00 | 4.81 |
| 9520 | 4.99 | 4.78 | 4.62 |
| 9530 | 4.77 | 4.59 | 4.46 |
| 9540 | 4.58 | 4.44 | 4.33 |
| 9550 | 4.43 | 4.32 | 4.23 |
| 9560 | 4.31 | 4.21 | 4.14 |
| 9570 | 4.21 | 4.13 | 4.06 |
| 9580 | 4.13 | 4.04 | 3.98 |
| 9590 | 4.04 | 3.97 | 3.91 |
| 9600 | 3.96 | 3.89 | 3.84 |
| 9610 | 3.89 | 3.82 | 3.78 |
| 9620 | 3.82 | 3.76 | 3.73 |
| 9630 | 3.76 | 3.71 | 3.68 |
| 9640 | 3.70 | 3.67 | 3.65 |
| 9650 | 3.67 | 3.64 | 3.62 |
| 9660 | 3.64 | 3.61 | 3.60 |
| 9670 | 3.61 | 3.59 | 3.58 |
| 9680 | 3.59 | 3.57 | 3.56 |
| 9690 | 3.57 | 3.55 | 3.54 |
| 9700 | 3.55 | 3.53 | 3.52 |
| 9710 | 3.53 | 3.51 | 3.50 |
| 9720 | 3.51 | 3.49 | 3.48 |
| 9730 | 3.49 | 3.48 | 3.48 |
| 9740 | 3.47 | 3.47 | 3.47 |
| 9750 | 3.46 | 3.47 | 3.48 |
| 9760 | 3.46 | 3.47 | 3.48 |
| 9780 | 3.47 | 3.49 | 3.51 |
| 9790 | 3.48 | 3.50 | 3.52 |
| 9800 | 3.50 | 3.51 | 3.53 |
| 9810 | 3.51 | 3.53 | 3.54 |
| 9820 | 3.53 | 3.54 | 3.56 |
| 9830 | 3.54 | 3.55 | 3.58 |
| 9840 | 3.55 | 3.57 | 3.60 |
| 9850 | 3.57 | 3.60 | 3.64 |
| 9860 | 3.59 | 3.63 | 3.68 |
| 9870 | 3.62 | 3.67 | 3.73 |
| 9880 | 3.66 | 3.72 | 3.78 |
| 9900 | 3.77 | 3.84 | 3.90 |
| 9950 | 4.10 | 4.22 | 4.35 |
| 10000 | 4.86 | 5.15 | 5.49 |