

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 | 0.06 | 0.08 | 0.09 | 49.51 | 48.69 | 45.56 | 55.55 | 48.69 | 46.69 |
| 50 | 0.06 | 0.09 | 0.09 | 49.97 | 46.22 | 45.30 | 54.48 | 46.08 | 45.14 |
| 100 | 0.07 | 0.10 | 0.10 | 47.98 | 44.02 | 42.47 | 45.99 | 43.63 | 42.49 |
| 500 | 0.07 | 0.13 | 0.14 | 39.97 | 38.31 | 37.35 | 36.22 | 35.76 | 34.22 |
| 1000 | 0.07 | 0.15 | 0.17 | 35.11 | 34.59 | 33.50 | 31.67 | 30.23 | 30.06 |
| 1200 | 0.08 | 0.16 | 0.18 | 33.65 | 33.28 | 32.56 | 30.00 | 29.04 | 28.80 |
| 1400 | 0.08 | 0.16 | 0.19 | 33.13 | 32.46 | 32.11 | 28.93 | 28.29 | 27.82 |
| 1600 | 0.09 | 0.17 | 0.20 | 32.80 | 32.09 | 31.95 | 28.05 | 27.68 | 27.11 |
| 1800 | 0.09 | 0.18 | 0.21 | 32.42 | 31.87 | 31.77 | 27.57 | 27.20 | 26.69 |
| 2000 | 0.09 | 0.19 | 0.21 | 31.78 | 31.50 | 31.45 | 27.23 | 26.80 | 26.41 |
| 2200 | 0.09 | 0.19 | 0.22 | 30.57 | 30.65 | 30.54 | 27.00 | 26.44 | 26.22 |
| 2400 | 0.10 | 0.20 | 0.23 | 29.13 | 29.43 | 29.29 | 26.83 | 26.11 | 26.08 |
| 2600 | 0.10 | 0.20 | 0.24 | 27.72 | 28.03 | 28.15 | 26.33 | 25.62 | 25.74 |
| 2800 | 0.10 | 0.21 | 0.24 | 26.11 | 26.42 | 26.86 | 25.23 | 24.81 | 24.92 |
| 3000 | 0.10 | 0.22 | 0.25 | 24.38 | 24.69 | 25.31 | 23.80 | 23.68 | 23.76 |
| 3500 | 0.13 | 0.25 | 0.29 | 20.57 | 20.82 | 21.46 | 20.52 | 20.53 | 20.86 |
| 4000 | 0.17 | 0.30 | 0.34 | 17.48 | 17.88 | 18.40 | 17.62 | 17.76 | 18.22 |
| 4500 | 0.22 | 0.36 | 0.40 | 15.22 | 15.68 | 16.20 | 15.22 | 15.61 | 15.98 |
| 5000 | 0.27 | 0.41 | 0.45 | 13.99 | 14.42 | 14.95 | 14.03 | 14.37 | 14.86 |
| 5500 | 0.31 | 0.46 | 0.50 | 13.33 | 13.78 | 14.30 | 13.38 | 13.76 | 14.24 |
| 6000 | 0.31 | 0.46 | 0.51 | 13.42 | 13.78 | 14.32 | 13.45 | 13.82 | 14.32 |
| 6500 | 0.29 | 0.45 | 0.52 | 14.06 | 14.43 | 14.79 | 14.31 | 14.70 | 15.09 |
| 7000 | 0.26 | 0.44 | 0.52 | 15.12 | 15.47 | 15.62 | 15.51 | 15.95 | 16.17 |
| 7500 | 0.24 | 0.43 | 0.52 | 16.13 | 16.43 | 16.33 | 17.01 | 17.42 | 17.53 |
| 8000 | 0.25 | 0.46 | 0.55 | 16.32 | 16.54 | 16.46 | 17.72 | 17.95 | 18.28 |
| 10000 | 0.37 | 0.62 | 0.74 | 15.63 | 16.01 | 16.03 | 17.13 | 17.78 | 18.08 |
| 12000 | 0.56 | 0.88 | 1.06 | 17.80 | 17.52 | 18.34 | 19.78 | 19.45 | 20.60 |
| 12900 | 0.75 | 1.12 | 1.38 | 20.61 | 21.92 | 25.15 | 20.95 | 22.04 | 22.80 |
| 13900 | 1.54 | 2.18 | 2.86 | 14.42 | 12.80 | 10.92 | 14.55 | 13.51 | 12.02 |
| 14200 | 2.35 | 3.23 | 4.23 | 9.18 | 8.13 | 6.95 | 10.34 | 9.58 | 8.62 |
| 15000 | 8.61 | 10.59 | 12.94 | 2.12 | 2.12 | 2.02 | 3.80 | 3.87 | 3.83 |
| 15550 | 17.71 | 20.34 | 23.56 | 0.81 | 1.09 | 1.23 | 1.95 | 2.27 | 2.43 |
| 16000 | 27.98 | 31.38 | 35.80 | 0.58 | 0.90 | 1.07 | 1.28 | 1.60 | 1.78 |
| 17000 | 41.94 | 41.50 | 41.44 | 0.38 | 0.70 | 0.83 | 0.61 | 0.89 | 1.05 |
| 17200 | 40.74 | 40.78 | 41.15 | 0.37 | 0.69 | 0.80 | 0.51 | 0.81 | 0.95 |
| 17400 | 40.32 | 40.65 | 41.14 | 0.36 | 0.67 | 0.78 | 0.42 | 0.73 | 0.85 |
| 17600 | 40.33 | 40.81 | 41.34 | 0.32 | 0.64 | 0.74 | 0.34 | 0.66 | 0.76 |
| 17800 | 40.59 | 41.12 | 41.69 | 0.26 | 0.59 | 0.67 | 0.28 | 0.60 | 0.71 |
| 18000 | 40.90 | 41.49 | 42.06 | 0.20 | 0.53 | 0.61 | 0.24 | 0.55 | 0.66 |
| 18200 | 41.33 | 41.89 | 42.40 | 0.16 | 0.50 | 0.57 | 0.20 | 0.51 | 0.61 |
| 18400 | 41.80 | 42.28 | 42.71 | 0.14 | 0.48 | 0.55 | 0.15 | 0.47 | 0.56 |
| 18600 | 42.18 | 42.63 | 42.95 | 0.12 | 0.45 | 0.52 | 0.11 | 0.44 | 0.51 |
| 18800 | 42.50 | 43.04 | 43.09 | 0.09 | 0.42 | 0.49 | 0.07 | 0.41 | 0.47 |
| 19000 | 42.82 | 43.22 | 43.21 | 0.06 | 0.39 | 0.45 | 0.05 | 0.38 | 0.45 |
| 19200 | 43.02 | 43.34 | 43.15 | 0.02 | 0.35 | 0.42 | 0.04 | 0.36 | 0.45 |
| 19500 | 43.26 | 43.56 | 43.10 | 0.04 | 0.29 | 0.36 | 0.02 | 0.33 | 0.44 |
| 20000 | 43.24 | 43.31 | 42.73 | 0.10 | 0.23 | 0.31 | 0.04 | 0.28 | 0.40 |
| 20500 | 42.70 | 42.57 | 42.00 | 0.15 | 0.17 | 0.26 | 0.05 | 0.27 | 0.43 |
| 21000 | 42.06 | 41.78 | 41.17 | 0.20 | 0.11 | 0.23 | 0.03 | 0.28 | 0.49 |
| 21500 | 40.92 | 40.61 | 40.17 | 0.21 | 0.11 | 0.25 | 0.06 | 0.29 | 0.52 |
| 22000 | 39.81 | 39.60 | 39.17 | 0.25 | 0.07 | 0.23 | 0.06 | 0.32 | 0.57 |
| 22500 | 38.74 | 38.60 | 38.18 | 0.26 | 0.09 | 0.28 | 0.04 | 0.37 | 0.60 |
| 22900 | 37.93 | 37.82 | 37.38 | 0.24 | 0.13 | 0.31 | 0.05 | 0.38 | 0.58 |
| 23500 | 36.62 | 36.58 | 36.09 | 0.26 | 0.13 | 0.30 | 0.00 | 0.40 | 0.58 |
| 24000 | 35.63 | 35.85 | 35.51 | 0.18 | 0.21 | 0.35 | 0.01 | 0.39 | 0.53 |
| 24500 | 34.87 | 35.03 | 35.15 | 0.15 | 0.24 | 0.34 | 0.02 | 0.37 | 0.52 |
| 25000 | 34.40 | 34.67 | 34.87 | 0.13 | 0.25 | 0.35 | 0.03 | 0.36 | 0.54 |
| 25500 | 34.10 | 34.46 | 34.62 | 0.05 | 0.31 | 0.41 | 0.04 | 0.31 | 0.50 |
| 26000 | 33.83 | 34.58 | 34.35 | 0.07 | 0.29 | 0.40 | 0.07 | 0.28 | 0.51 |
| 26500 | 33.71 | 34.84 | 34.36 | 0.07 | 0.30 | 0.44 | 0.10 | 0.27 | 0.51 |

Typical Performance Data

| FREQ. (MHz) | GROUP DELAY | | |
|--------------------|-------------|--------|---------|
| | (nsec) | | |
| | @-55°C | @+25°C | @+125°C |
| 10 | 0.07 | 0.07 | 0.08 |
| 50 | 0.06 | 0.06 | 0.07 |
| 100 | 0.05 | 0.06 | 0.06 |
| 300 | 0.05 | 0.05 | 0.06 |
| 500 | 0.05 | 0.05 | 0.05 |
| 700 | 0.05 | 0.05 | 0.05 |
| 900 | 0.05 | 0.05 | 0.05 |
| 1000 | 0.05 | 0.05 | 0.05 |
| 1200 | 0.05 | 0.05 | 0.05 |
| 1400 | 0.05 | 0.05 | 0.05 |
| 1600 | 0.05 | 0.05 | 0.05 |
| 1800 | 0.05 | 0.05 | 0.05 |
| 2000 | 0.05 | 0.05 | 0.05 |
| 2200 | 0.05 | 0.05 | 0.05 |
| 2400 | 0.05 | 0.05 | 0.05 |
| 2600 | 0.05 | 0.05 | 0.06 |
| 2800 | 0.05 | 0.05 | 0.06 |
| 3000 | 0.05 | 0.05 | 0.06 |
| 3200 | 0.05 | 0.05 | 0.06 |
| 3400 | 0.05 | 0.05 | 0.06 |
| 3600 | 0.05 | 0.05 | 0.06 |
| 3800 | 0.05 | 0.05 | 0.06 |
| 4000 | 0.05 | 0.06 | 0.06 |
| 4500 | 0.05 | 0.06 | 0.06 |
| 5000 | 0.05 | 0.06 | 0.06 |
| 5500 | 0.06 | 0.06 | 0.06 |
| 6000 | 0.06 | 0.06 | 0.06 |
| 6500 | 0.06 | 0.06 | 0.06 |
| 7000 | 0.06 | 0.06 | 0.07 |
| 7500 | 0.07 | 0.07 | 0.07 |
| 8000 | 0.07 | 0.07 | 0.07 |
| 8500 | 0.07 | 0.07 | 0.07 |
| 9000 | 0.07 | 0.08 | 0.08 |
| 9500 | 0.08 | 0.08 | 0.08 |
| 10000 | 0.08 | 0.08 | 0.09 |
| 10500 | 0.09 | 0.09 | 0.09 |
| 11000 | 0.10 | 0.10 | 0.10 |
| 11500 | 0.10 | 0.11 | 0.11 |
| 12000 | 0.11 | 0.12 | 0.12 |
| 12900 | 0.14 | 0.15 | 0.16 |