

Typical Performance Data

| FREQ. (MHz) | INSERTION LOSS | | | INPUT RETURN LOSS | | | OUTPUT RETURN LOSS | | |
|--------------------|----------------|--------|--------|-------------------|--------|--------|--------------------|--------|--------|
| | (dB) | | | (dB) | | | (dB) | | |
| | @-30°C | @+25°C | @+70°C | @-30°C | @+25°C | @+70°C | @-30°C | @+25°C | @+70°C |
| 100 | 95.15 | 100.92 | 105.10 | 0.02 | 0.05 | 0.05 | 0.01 | 0.03 | 0.04 |
| 200 | 108.61 | 108.94 | 104.90 | 0.05 | 0.08 | 0.08 | 0.03 | 0.05 | 0.05 |
| 400 | 100.06 | 101.74 | 97.91 | 0.08 | 0.09 | 0.10 | 0.07 | 0.08 | 0.09 |
| 800 | 99.08 | 105.17 | 111.52 | 0.10 | 0.13 | 0.14 | 0.10 | 0.13 | 0.14 |
| 1000 | 95.39 | 103.62 | 99.41 | 0.10 | 0.14 | 0.16 | 0.11 | 0.14 | 0.16 |
| 1500 | 96.63 | 114.68 | 100.44 | 0.11 | 0.16 | 0.18 | 0.12 | 0.16 | 0.18 |
| 2000 | 97.17 | 94.91 | 103.79 | 0.12 | 0.17 | 0.19 | 0.12 | 0.17 | 0.20 |
| 2400 | 95.16 | 97.30 | 95.11 | 0.12 | 0.17 | 0.20 | 0.11 | 0.17 | 0.20 |
| 3000 | 94.73 | 96.36 | 93.16 | 0.11 | 0.17 | 0.20 | 0.11 | 0.17 | 0.21 |
| 3500 | 108.99 | 89.78 | 90.72 | 0.10 | 0.16 | 0.20 | 0.10 | 0.16 | 0.20 |
| 4500 | 95.72 | 104.37 | 110.09 | 0.07 | 0.14 | 0.18 | 0.08 | 0.14 | 0.19 |
| 5500 | 102.37 | 95.90 | 101.68 | 0.02 | 0.11 | 0.15 | 0.05 | 0.12 | 0.16 |
| 9000 | 91.86 | 96.59 | 103.52 | 0.11 | 0.01 | 0.08 | 0.12 | 0.00 | 0.09 |
| 9500 | 93.08 | 93.54 | 102.85 | 0.12 | 0.00 | 0.07 | 0.13 | 0.01 | 0.08 |
| 10000 | 93.96 | 103.79 | 93.63 | 0.13 | 0.01 | 0.07 | 0.14 | 0.01 | 0.07 |
| 12000 | 99.10 | 109.22 | 107.12 | 0.06 | 0.05 | 0.13 | 0.03 | 0.04 | 0.13 |
| 13000 | 96.46 | 95.84 | 94.81 | 0.03 | 0.14 | 0.22 | 0.06 | 0.12 | 0.22 |
| 14500 | 118.54 | 102.78 | 103.75 | 0.19 | 0.32 | 0.42 | 0.18 | 0.29 | 0.41 |
| 15000 | 97.82 | 96.49 | 95.11 | 0.25 | 0.39 | 0.49 | 0.22 | 0.36 | 0.48 |
| 16000 | 103.52 | 90.63 | 91.33 | 0.33 | 0.50 | 0.62 | 0.31 | 0.48 | 0.61 |
| 17000 | 97.84 | 100.38 | 97.10 | 0.36 | 0.56 | 0.67 | 0.35 | 0.54 | 0.66 |
| 18500 | 99.33 | 95.26 | 90.25 | 0.25 | 0.47 | 0.58 | 0.29 | 0.50 | 0.62 |
| 20000 | 91.53 | 96.45 | 116.54 | 0.00 | 0.22 | 0.33 | 0.03 | 0.27 | 0.39 |
| 21000 | 95.56 | 102.50 | 99.03 | 0.21 | 0.02 | 0.14 | 0.21 | 0.07 | 0.19 |
| 22000 | 94.30 | 97.53 | 112.54 | 0.37 | 0.14 | 0.01 | 0.38 | 0.10 | 0.04 |
| 23000 | 93.06 | 90.33 | 100.01 | 0.44 | 0.22 | 0.07 | 0.44 | 0.20 | 0.04 |
| 23500 | 105.67 | 87.88 | 96.75 | 0.45 | 0.22 | 0.07 | 0.42 | 0.22 | 0.05 |
| 24000 | 109.69 | 91.67 | 92.22 | 0.42 | 0.21 | 0.05 | 0.39 | 0.20 | 0.04 |
| 25500 | 92.92 | 99.31 | 90.27 | 0.19 | 0.01 | 0.15 | 0.16 | 0.02 | 0.16 |
| 26000 | 85.31 | 88.56 | 90.55 | 0.09 | 0.09 | 0.25 | 0.04 | 0.07 | 0.29 |
| 26500 | 98.53 | 88.61 | 91.97 | 0.01 | 0.19 | 0.36 | 0.02 | 0.17 | 0.35 |
| 27000 | 86.82 | 83.50 | 87.53 | 0.11 | 0.29 | 0.46 | 0.13 | 0.26 | 0.48 |
| 28500 | 79.22 | 77.78 | 82.15 | 0.27 | 0.49 | 0.67 | 0.28 | 0.49 | 0.67 |
| 29000 | 80.08 | 81.14 | 105.71 | 0.28 | 0.53 | 0.70 | 0.33 | 0.53 | 0.74 |
| 29500 | 76.41 | 85.69 | 79.80 | 0.26 | 0.53 | 0.70 | 0.26 | 0.54 | 0.71 |
| 30000 | 76.19 | 72.30 | 92.01 | 0.24 | 0.52 | 0.70 | 0.28 | 0.56 | 0.76 |
| 32500 | 60.52 | 60.50 | 60.27 | 0.04 | 0.37 | 0.55 | 0.00 | 0.40 | 0.57 |
| 35100 | 31.60 | 31.61 | 31.34 | 0.12 | 0.17 | 0.36 | 0.15 | 0.15 | 0.35 |
| 35800 | 20.26 | 20.07 | 19.74 | 0.02 | 0.27 | 0.48 | 0.03 | 0.25 | 0.46 |
| 36660 | 3.13 | 2.89 | 2.73 | 3.54 | 4.63 | 5.54 | 3.69 | 4.87 | 5.78 |
| 37000 | 0.32 | 0.61 | 0.83 | 19.53 | 21.21 | 22.86 | 19.32 | 21.74 | 21.91 |
| 37500 | 0.34 | 0.63 | 0.86 | 14.38 | 15.71 | 16.13 | 14.58 | 15.73 | 16.41 |
| 38000 | 0.17 | 0.49 | 0.72 | 26.32 | 27.66 | 28.56 | 29.80 | 33.55 | 33.36 |
| 39000 | 0.31 | 0.60 | 0.83 | 14.45 | 16.10 | 16.49 | 13.62 | 15.06 | 15.30 |
| 40000 | 0.16 | 0.49 | 0.73 | 20.67 | 22.52 | 22.33 | 21.58 | 23.08 | 22.92 |
| 40500 | 0.17 | 0.50 | 0.74 | 18.00 | 19.27 | 19.77 | 20.18 | 21.68 | 22.58 |
| 44000 | 0.23 | 0.65 | 0.96 | 18.81 | 17.37 | 16.38 | 32.11 | 23.45 | 19.13 |
| 45000 | 10.23 | 10.92 | 11.78 | 0.23 | 0.53 | 0.73 | 0.37 | 0.57 | 0.75 |
| 47000 | 30.82 | 31.52 | 31.91 | 0.39 | 0.66 | 0.88 | 0.50 | 0.70 | 1.11 |
| 49000 | 41.48 | 42.19 | 42.36 | 0.40 | 0.91 | 1.19 | 0.33 | 0.89 | 1.18 |
| 51000 | 48.50 | 48.47 | 49.09 | 0.08 | 0.47 | 0.73 | 0.13 | 0.43 | 0.72 |
| 52000 | 50.70 | 51.55 | 51.29 | 0.30 | 0.18 | 0.41 | 0.32 | 0.18 | 0.47 |
| 53000 | 53.17 | 53.91 | 53.75 | 0.44 | 0.02 | 0.20 | 0.49 | 0.01 | 0.26 |
| 54000 | 54.18 | 54.60 | 53.94 | 0.52 | 0.11 | 0.13 | 0.54 | 0.08 | 0.21 |
| 55000 | 53.54 | 55.33 | 55.65 | 0.46 | 0.05 | 0.23 | 0.36 | 0.03 | 0.33 |
| 56000 | 52.32 | 54.29 | 54.55 | 0.41 | 0.04 | 0.35 | 0.21 | 0.10 | 0.42 |
| 56500 | 53.05 | 53.82 | 54.61 | 0.14 | 0.15 | 0.41 | 0.01 | 0.15 | 0.59 |
| 57000 | 53.45 | 52.37 | 53.00 | 0.16 | 0.25 | 0.55 | 0.03 | 0.27 | 0.48 |
| 58000 | 50.93 | 51.80 | 52.42 | 0.05 | 0.44 | 0.77 | 0.14 | 0.44 | 0.77 |
| 59000 | 49.74 | 49.32 | 49.82 | 0.15 | 0.56 | 0.89 | 0.18 | 0.56 | 0.94 |

Typical Performance Data

| FREQ. (MHz) | GROUP DELAY | | |
|--------------------|-------------|--------|--------|
| | (nsec) | | |
| | @-30°C | @+25°C | @+70°C |
| 37000 | 0.57 | 0.55 | 0.54 |
| 37100 | 0.52 | 0.50 | 0.49 |
| 37200 | 0.48 | 0.47 | 0.46 |
| 37300 | 0.45 | 0.44 | 0.43 |
| 37400 | 0.42 | 0.42 | 0.42 |
| 37500 | 0.41 | 0.41 | 0.40 |
| 37600 | 0.40 | 0.40 | 0.39 |
| 37700 | 0.39 | 0.39 | 0.39 |
| 37800 | 0.38 | 0.38 | 0.38 |
| 37900 | 0.38 | 0.38 | 0.37 |
| 38000 | 0.37 | 0.37 | 0.37 |
| 38100 | 0.37 | 0.36 | 0.36 |
| 38200 | 0.36 | 0.36 | 0.36 |
| 38400 | 0.35 | 0.35 | 0.35 |
| 38600 | 0.34 | 0.34 | 0.33 |
| 38800 | 0.33 | 0.33 | 0.33 |
| 39000 | 0.32 | 0.32 | 0.32 |
| 39200 | 0.32 | 0.32 | 0.32 |
| 39400 | 0.32 | 0.31 | 0.31 |
| 39600 | 0.31 | 0.31 | 0.31 |
| 39800 | 0.31 | 0.31 | 0.31 |
| 40000 | 0.31 | 0.31 | 0.31 |
| 40100 | 0.31 | 0.31 | 0.31 |
| 40400 | 0.30 | 0.30 | 0.30 |
| 40500 | 0.30 | 0.30 | 0.30 |
| 40800 | 0.30 | 0.30 | 0.30 |
| 41000 | 0.30 | 0.30 | 0.30 |
| 41100 | 0.30 | 0.30 | 0.30 |
| 41300 | 0.30 | 0.30 | 0.30 |
| 41600 | 0.30 | 0.30 | 0.30 |
| 41900 | 0.30 | 0.30 | 0.30 |
| 42000 | 0.30 | 0.30 | 0.30 |
| 42200 | 0.30 | 0.31 | 0.31 |
| 42600 | 0.31 | 0.31 | 0.32 |
| 43000 | 0.33 | 0.33 | 0.33 |
| 43100 | 0.33 | 0.33 | 0.33 |
| 43500 | 0.35 | 0.35 | 0.35 |
| 43600 | 0.36 | 0.36 | 0.36 |
| 43800 | 0.38 | 0.39 | 0.40 |
| 43900 | 0.40 | 0.41 | 0.42 |
| 44000 | 0.43 | 0.43 | 0.44 |