

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 |
| 0.3 | 0.05 | 0.06 | 0.06 | 26.67 | 27.47 | 27.83 | 26.72 | 27.50 | 27.91 |
| 0.5 | 0.08 | 0.09 | 0.09 | 22.88 | 23.67 | 24.29 | 22.91 | 23.70 | 24.35 |
| 1.0 | 0.14 | 0.14 | 0.14 | 19.74 | 20.71 | 21.61 | 19.80 | 20.78 | 21.71 |
| 1.5 | 0.20 | 0.19 | 0.17 | 21.79 | 23.18 | 24.52 | 22.04 | 23.50 | 24.98 |
| 2.0 | 0.27 | 0.25 | 0.25 | 28.59 | 30.11 | 31.40 | 29.86 | 31.61 | 33.27 |
| 2.2 | 0.32 | 0.31 | 0.30 | 31.37 | 32.11 | 32.63 | 32.52 | 32.83 | 32.99 |
| 2.3 | 0.34 | 0.33 | 0.32 | 32.22 | 32.30 | 32.24 | 32.44 | 32.00 | 31.58 |
| 2.4 | 0.37 | 0.36 | 0.35 | 32.39 | 31.62 | 30.84 | 31.54 | 30.56 | 29.72 |
| 2.5 | 0.41 | 0.39 | 0.39 | 31.57 | 29.98 | 28.66 | 30.08 | 28.72 | 27.59 |
| 2.6 | 0.46 | 0.44 | 0.43 | 29.90 | 27.87 | 26.35 | 28.36 | 26.76 | 25.48 |
| 2.8 | 0.57 | 0.55 | 0.54 | 26.08 | 24.12 | 22.75 | 25.11 | 23.48 | 22.26 |
| 3.0 | 0.69 | 0.68 | 0.67 | 24.67 | 23.29 | 22.40 | 23.97 | 22.75 | 21.88 |
| 3.1 | 0.78 | 0.75 | 0.75 | 26.36 | 25.64 | 25.38 | 25.40 | 24.61 | 24.15 |
| 3.3 | 1.13 | 1.13 | 1.18 | 26.68 | 22.97 | 20.30 | 24.66 | 21.49 | 19.13 |
| 3.4 | 1.48 | 1.58 | 1.74 | 16.61 | 14.19 | 12.39 | 16.18 | 13.81 | 12.05 |
| 3.5 | 2.17 | 2.46 | 2.82 | 10.71 | 8.86 | 7.55 | 10.51 | 8.69 | 7.38 |
| 3.6 | 3.43 | 4.00 | 4.64 | 6.76 | 5.41 | 4.51 | 6.62 | 5.29 | 4.40 |
| 3.7 | 5.34 | 6.24 | 7.12 | 4.20 | 3.30 | 2.73 | 4.11 | 3.21 | 2.64 |
| 3.8 | 7.84 | 8.97 | 10.01 | 2.68 | 2.09 | 1.75 | 2.60 | 2.02 | 1.68 |
| 3.9 | 10.67 | 11.97 | 13.10 | 1.80 | 1.43 | 1.21 | 1.73 | 1.36 | 1.15 |
| 4.0 | 13.64 | 15.02 | 16.19 | 1.30 | 1.04 | 0.91 | 1.25 | 1.00 | 0.86 |
| 4.1 | 16.64 | 18.07 | 19.26 | 1.00 | 0.82 | 0.72 | 0.95 | 0.77 | 0.68 |
| 4.2 | 19.64 | 21.09 | 22.30 | 0.81 | 0.67 | 0.59 | 0.76 | 0.63 | 0.55 |
| 4.3 | 22.59 | 24.05 | 25.26 | 0.67 | 0.56 | 0.51 | 0.64 | 0.53 | 0.47 |
| 4.4 | 25.50 | 26.98 | 28.22 | 0.58 | 0.48 | 0.44 | 0.56 | 0.47 | 0.42 |
| 4.5 | 28.37 | 29.88 | 31.14 | 0.51 | 0.43 | 0.39 | 0.48 | 0.41 | 0.37 |
| 4.6 | 31.22 | 32.75 | 34.03 | 0.45 | 0.39 | 0.35 | 0.43 | 0.36 | 0.32 |
| 4.7 | 34.05 | 35.62 | 36.94 | 0.40 | 0.34 | 0.31 | 0.38 | 0.33 | 0.30 |
| 4.8 | 36.88 | 38.48 | 39.85 | 0.36 | 0.31 | 0.28 | 0.35 | 0.29 | 0.27 |
| 5.0 | 42.59 | 44.31 | 45.75 | 0.31 | 0.27 | 0.25 | 0.29 | 0.25 | 0.22 |
| 6.0 | 69.06 | 69.61 | 69.84 | 0.16 | 0.14 | 0.13 | 0.15 | 0.14 | 0.12 |
| 7.0 | 64.40 | 63.85 | 63.45 | 0.11 | 0.10 | 0.10 | 0.09 | 0.09 | 0.08 |
| 8.0 | 61.61 | 61.32 | 61.41 | 0.07 | 0.08 | 0.06 | 0.07 | 0.07 | 0.06 |
| 9.0 | 61.88 | 61.76 | 61.62 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.04 |
| 10.0 | 62.72 | 62.90 | 62.88 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 |
| 12.0 | 65.62 | 65.86 | 65.95 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 |
| 15.0 | 69.99 | 70.38 | 70.57 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 |
| 20.0 | 75.21 | 74.92 | 77.55 | 0.03 | 0.04 | 0.03 | 0.02 | 0.03 | 0.03 |
| 30.0 | 78.46 | 77.79 | 78.36 | 0.03 | 0.04 | 0.04 | 0.03 | 0.04 | 0.03 |
| 40.0 | 75.83 | 78.38 | 74.58 | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 |
| 45.0 | 74.21 | 75.09 | 75.93 | 0.05 | 0.05 | 0.05 | 0.04 | 0.05 | 0.05 |
| 48.0 | 73.27 | 73.52 | 73.99 | 0.05 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 |
| 50.0 | 73.67 | 72.96 | 73.70 | 0.05 | 0.06 | 0.05 | 0.04 | 0.05 | 0.05 |
| 60.0 | 72.43 | 72.67 | 72.24 | 0.06 | 0.07 | 0.06 | 0.05 | 0.06 | 0.06 |
| 70.0 | 71.31 | 71.71 | 72.04 | 0.06 | 0.07 | 0.07 | 0.05 | 0.07 | 0.06 |
| 80.0 | 70.46 | 71.09 | 70.80 | 0.07 | 0.08 | 0.08 | 0.06 | 0.07 | 0.06 |
| 82.0 | 70.83 | 70.68 | 69.70 | 0.07 | 0.08 | 0.08 | 0.05 | 0.07 | 0.06 |
| 90.0 | 69.55 | 69.54 | 69.70 | 0.07 | 0.08 | 0.08 | 0.05 | 0.07 | 0.06 |
| 100.0 | 68.32 | 68.96 | 68.57 | 0.08 | 0.09 | 0.08 | 0.06 | 0.07 | 0.06 |
| 200.0 | 62.64 | 61.84 | 62.12 | 0.12 | 0.13 | 0.13 | 0.08 | 0.11 | 0.11 |
| 250.0 | 63.85 | 62.91 | 63.12 | 0.13 | 0.14 | 0.14 | 0.09 | 0.13 | 0.12 |
| 300.0 | 59.10 | 58.88 | 58.76 | 0.14 | 0.16 | 0.16 | 0.11 | 0.14 | 0.15 |
| 400.0 | 58.34 | 57.99 | 57.83 | 0.14 | 0.17 | 0.17 | 0.10 | 0.14 | 0.14 |
| 500.0 | 58.46 | 58.41 | 58.18 | 0.15 | 0.19 | 0.19 | 0.13 | 0.17 | 0.17 |
| 600.0 | 60.57 | 60.74 | 61.20 | 0.16 | 0.20 | 0.21 | 0.14 | 0.19 | 0.20 |
| 700.0 | 62.39 | 60.82 | 60.74 | 0.21 | 0.26 | 0.27 | 0.17 | 0.23 | 0.24 |
| 800.0 | 47.75 | 48.71 | 47.95 | 0.23 | 0.28 | 0.30 | 0.22 | 0.28 | 0.29 |

Typical Performance Data

| FREQ. (MHz) | GROUP DELAY | | |
|--------------------|-------------|--------|--------|
| | (nsec) | | |
| | @-40°C | @+25°C | @+85°C |
| 0.3 | 198.31 | 199.83 | 202.44 |
| 0.4 | 198.15 | 199.76 | 202.21 |
| 0.5 | 198.31 | 200.05 | 202.33 |
| 0.6 | 198.48 | 200.53 | 202.53 |
| 0.7 | 199.40 | 201.42 | 203.25 |
| 0.8 | 200.13 | 202.42 | 205.03 |
| 0.9 | 202.08 | 203.97 | 206.03 |
| 1.0 | 203.32 | 206.03 | 207.84 |
| 1.1 | 205.33 | 208.16 | 210.32 |
| 1.2 | 207.23 | 210.23 | 212.40 |
| 1.3 | 210.96 | 213.21 | 215.36 |
| 1.4 | 212.92 | 216.66 | 218.81 |
| 1.5 | 216.74 | 219.86 | 222.65 |
| 1.6 | 220.37 | 223.53 | 226.38 |
| 1.7 | 225.09 | 228.32 | 231.39 |
| 1.8 | 229.10 | 233.27 | 236.01 |
| 1.9 | 234.77 | 237.97 | 241.69 |
| 2.0 | 240.19 | 244.01 | 247.38 |
| 2.1 | 246.66 | 250.76 | 254.29 |
| 2.2 | 252.87 | 257.89 | 261.41 |
| 2.3 | 260.78 | 265.47 | 270.05 |
| 2.4 | 269.18 | 275.12 | 279.66 |
| 2.5 | 279.00 | 285.25 | 290.60 |
| 2.6 | 289.79 | 297.06 | 302.55 |
| 2.7 | 302.71 | 310.38 | 317.38 |
| 2.8 | 317.74 | 326.84 | 334.32 |
| 2.9 | 335.84 | 346.20 | 355.85 |
| 3.0 | 357.90 | 370.83 | 382.37 |