

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 |
| 10 | 108.99 | 102.18 | 112.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 94.40 | 100.89 | 102.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 104.61 | 95.43 | 98.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 104.19 | 96.30 | 94.52 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 50 | 94.28 | 104.75 | 95.81 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 |
| 60 | 108.41 | 104.21 | 96.92 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 |
| 70 | 98.69 | 95.61 | 95.29 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 |
| 80 | 98.92 | 99.26 | 109.46 | 0.01 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 |
| 100 | 98.72 | 94.56 | 102.64 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 |
| 110 | 86.11 | 84.66 | 88.36 | 0.02 | 0.03 | 0.03 | 0.01 | 0.02 | 0.03 |
| 120 | 80.36 | 78.96 | 78.54 | 0.02 | 0.03 | 0.04 | 0.01 | 0.03 | 0.03 |
| 130 | 73.41 | 73.05 | 72.95 | 0.03 | 0.04 | 0.04 | 0.02 | 0.03 | 0.04 |
| 140 | 67.96 | 67.77 | 67.83 | 0.03 | 0.05 | 0.05 | 0.02 | 0.04 | 0.05 |
| 150 | 62.93 | 62.90 | 62.53 | 0.04 | 0.06 | 0.06 | 0.03 | 0.05 | 0.06 |
| 160 | 58.35 | 58.29 | 58.08 | 0.05 | 0.07 | 0.08 | 0.04 | 0.06 | 0.07 |
| 170 | 54.02 | 53.84 | 53.66 | 0.06 | 0.08 | 0.09 | 0.05 | 0.07 | 0.08 |
| 180 | 49.72 | 49.55 | 49.34 | 0.07 | 0.10 | 0.11 | 0.06 | 0.09 | 0.10 |
| 190 | 45.47 | 45.29 | 45.03 | 0.09 | 0.12 | 0.14 | 0.08 | 0.11 | 0.13 |
| 200 | 41.19 | 41.01 | 40.74 | 0.12 | 0.15 | 0.17 | 0.10 | 0.13 | 0.16 |
| 210 | 36.85 | 36.65 | 36.40 | 0.15 | 0.19 | 0.22 | 0.13 | 0.17 | 0.20 |
| 220 | 32.36 | 32.17 | 31.90 | 0.20 | 0.25 | 0.28 | 0.19 | 0.23 | 0.27 |
| 230 | 27.68 | 27.49 | 27.22 | 0.28 | 0.34 | 0.38 | 0.26 | 0.32 | 0.36 |
| 244 | 20.62 | 20.43 | 20.15 | 0.50 | 0.59 | 0.66 | 0.49 | 0.58 | 0.65 |
| 262 | 10.51 | 10.36 | 10.13 | 1.65 | 1.90 | 2.13 | 1.72 | 1.98 | 2.22 |
| 272 | 5.24 | 5.24 | 5.16 | 4.57 | 5.14 | 5.68 | 4.89 | 5.56 | 6.18 |
| 280 | 2.71 | 2.86 | 2.96 | 10.75 | 11.63 | 12.39 | 12.36 | 13.94 | 15.34 |
| 292 | 1.66 | 1.90 | 2.06 | 17.61 | 16.44 | 15.80 | 20.02 | 18.02 | 16.87 |
| 320 | 1.20 | 1.39 | 1.52 | 35.02 | 35.96 | 36.11 | 19.89 | 19.07 | 18.45 |
| 350 | 1.18 | 1.35 | 1.48 | 14.41 | 14.15 | 14.04 | 14.16 | 13.95 | 13.80 |
| 391 | 1.03 | 1.20 | 1.32 | 18.25 | 17.86 | 17.64 | 21.97 | 22.30 | 22.50 |
| 400 | 1.06 | 1.23 | 1.35 | 17.25 | 16.78 | 16.64 | 19.77 | 19.64 | 19.83 |
| 430 | 1.22 | 1.43 | 1.56 | 14.10 | 13.61 | 13.52 | 14.16 | 13.72 | 13.68 |
| 450 | 1.29 | 1.50 | 1.66 | 15.04 | 14.54 | 14.33 | 14.30 | 13.86 | 13.69 |
| 470 | 1.40 | 1.63 | 1.81 | 15.88 | 15.54 | 15.16 | 15.18 | 14.96 | 14.76 |
| 490 | 1.74 | 2.03 | 2.27 | 13.24 | 12.87 | 12.36 | 15.11 | 14.95 | 14.52 |
| 510 | 3.14 | 3.61 | 4.03 | 7.10 | 6.84 | 6.53 | 8.50 | 8.23 | 7.87 |
| 520 | 4.88 | 5.45 | 5.94 | 4.37 | 4.28 | 4.16 | 5.13 | 5.05 | 4.91 |
| 540 | 10.27 | 10.86 | 11.35 | 1.69 | 1.78 | 1.82 | 1.92 | 2.01 | 2.07 |
| 570 | 18.82 | 19.31 | 19.69 | 0.72 | 0.81 | 0.88 | 0.76 | 0.87 | 0.94 |
| 620 | 29.98 | 30.33 | 30.59 | 0.38 | 0.45 | 0.51 | 0.37 | 0.46 | 0.52 |
| 650 | 35.16 | 35.44 | 35.66 | 0.30 | 0.37 | 0.42 | 0.29 | 0.38 | 0.43 |
| 700 | 42.02 | 42.23 | 42.39 | 0.23 | 0.30 | 0.35 | 0.22 | 0.30 | 0.36 |
| 750 | 47.39 | 47.49 | 47.62 | 0.19 | 0.26 | 0.31 | 0.18 | 0.26 | 0.31 |
| 800 | 51.62 | 51.72 | 51.75 | 0.17 | 0.24 | 0.29 | 0.16 | 0.24 | 0.29 |
| 900 | 58.26 | 58.21 | 58.28 | 0.14 | 0.22 | 0.27 | 0.14 | 0.22 | 0.27 |
| 1000 | 63.66 | 63.50 | 63.71 | 0.13 | 0.22 | 0.27 | 0.13 | 0.22 | 0.27 |
| 1100 | 69.25 | 68.94 | 69.20 | 0.13 | 0.22 | 0.28 | 0.12 | 0.22 | 0.27 |
| 1200 | 77.28 | 75.61 | 75.45 | 0.14 | 0.23 | 0.30 | 0.12 | 0.23 | 0.28 |
| 1300 | 89.24 | 86.57 | 83.27 | 0.14 | 0.24 | 0.31 | 0.13 | 0.23 | 0.30 |
| 1400 | 92.50 | 101.74 | 92.81 | 0.15 | 0.25 | 0.32 | 0.13 | 0.24 | 0.31 |
| 1600 | 97.25 | 86.56 | 83.06 | 0.17 | 0.28 | 0.35 | 0.15 | 0.27 | 0.34 |
| 1800 | 73.80 | 72.09 | 70.95 | 0.19 | 0.30 | 0.37 | 0.17 | 0.29 | 0.36 |
| 2000 | 64.63 | 63.90 | 63.12 | 0.21 | 0.32 | 0.39 | 0.18 | 0.31 | 0.39 |
| 2200 | 59.00 | 58.51 | 58.15 | 0.23 | 0.34 | 0.41 | 0.20 | 0.33 | 0.41 |
| 2400 | 54.74 | 54.43 | 54.13 | 0.24 | 0.36 | 0.43 | 0.22 | 0.35 | 0.43 |
| 2600 | 51.23 | 50.99 | 50.82 | 0.26 | 0.37 | 0.44 | 0.23 | 0.36 | 0.44 |
| 2800 | 48.20 | 48.08 | 47.93 | 0.27 | 0.38 | 0.46 | 0.24 | 0.37 | 0.45 |
| 3000 | 45.57 | 45.40 | 45.35 | 0.28 | 0.39 | 0.47 | 0.24 | 0.38 | 0.46 |
| 3500 | 38.85 | 38.78 | 38.80 | 0.31 | 0.44 | 0.54 | 0.25 | 0.38 | 0.47 |
| 4000 | 33.63 | 33.28 | 33.04 | 0.33 | 0.49 | 0.61 | 0.22 | 0.37 | 0.47 |

Typical Performance Data

| FREQ. (MHz) | GROUP DELAY | | |
|--------------------|-------------|--------|--------|
| | (nsec) | | |
| | @-40°C | @+25°C | @+85°C |
| 292 | 10.16 | 9.98 | 9.82 |
| 296 | 9.48 | 9.31 | 9.16 |
| 300 | 8.80 | 8.66 | 8.53 |
| 304 | 8.21 | 8.10 | 8.00 |
| 308 | 7.74 | 7.65 | 7.57 |
| 312 | 7.36 | 7.29 | 7.23 |
| 316 | 7.05 | 7.00 | 6.95 |
| 320 | 6.79 | 6.75 | 6.71 |
| 324 | 6.56 | 6.52 | 6.49 |
| 328 | 6.35 | 6.32 | 6.29 |
| 332 | 6.16 | 6.13 | 6.10 |
| 336 | 5.98 | 5.95 | 5.93 |
| 340 | 5.82 | 5.80 | 5.77 |
| 344 | 5.68 | 5.66 | 5.64 |
| 348 | 5.55 | 5.53 | 5.52 |
| 352 | 5.45 | 5.43 | 5.42 |
| 356 | 5.36 | 5.35 | 5.34 |
| 360 | 5.30 | 5.28 | 5.27 |
| 364 | 5.24 | 5.23 | 5.22 |
| 368 | 5.20 | 5.19 | 5.18 |
| 372 | 5.16 | 5.16 | 5.15 |
| 376 | 5.13 | 5.13 | 5.13 |
| 380 | 5.10 | 5.11 | 5.10 |
| 384 | 5.08 | 5.08 | 5.08 |
| 388 | 5.05 | 5.06 | 5.06 |
| 391 | 5.03 | 5.04 | 5.04 |
| 396 | 5.00 | 5.01 | 5.01 |
| 400 | 4.97 | 4.98 | 4.99 |
| 406 | 4.94 | 4.94 | 4.95 |
| 412 | 4.91 | 4.91 | 4.92 |
| 418 | 4.89 | 4.90 | 4.91 |
| 424 | 4.89 | 4.90 | 4.91 |
| 430 | 4.91 | 4.92 | 4.93 |
| 436 | 4.96 | 4.96 | 4.98 |
| 442 | 5.02 | 5.03 | 5.05 |
| 448 | 5.11 | 5.13 | 5.15 |
| 454 | 5.22 | 5.24 | 5.26 |
| 460 | 5.35 | 5.38 | 5.41 |
| 470 | 5.63 | 5.67 | 5.71 |
| 480 | 6.02 | 6.07 | 6.12 |
| 490 | 6.53 | 6.58 | 6.61 |