

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 |
| 1 | 110.87 | 102.77 | 102.24 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 20 | 95.23 | 99.80 | 96.84 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 |
| 80 | 61.04 | 61.11 | 60.91 | 0.11 | 0.13 | 0.14 | 0.03 | 0.03 | 0.03 |
| 190 | 40.60 | 40.68 | 40.72 | 0.34 | 0.40 | 0.43 | 0.08 | 0.10 | 0.11 |
| 245 | 37.61 | 37.68 | 37.74 | 0.34 | 0.41 | 0.45 | 0.16 | 0.19 | 0.21 |
| 290 | 41.31 | 41.49 | 41.65 | 0.33 | 0.41 | 0.46 | 0.26 | 0.31 | 0.33 |
| 315 | 63.33 | 62.49 | 61.26 | 0.36 | 0.45 | 0.51 | 0.35 | 0.41 | 0.45 |
| 325 | 47.09 | 46.66 | 46.26 | 0.39 | 0.49 | 0.56 | 0.40 | 0.47 | 0.51 |
| 350 | 37.09 | 37.20 | 37.27 | 0.55 | 0.68 | 0.77 | 0.57 | 0.67 | 0.74 |
| 372 | 48.94 | 50.61 | 51.13 | 0.88 | 1.09 | 1.22 | 0.88 | 1.06 | 1.20 |
| 380 | 43.27 | 42.86 | 42.67 | 1.14 | 1.41 | 1.59 | 1.13 | 1.39 | 1.59 |
| 383 | 43.17 | 43.04 | 41.60 | 1.29 | 1.60 | 1.83 | 1.28 | 1.58 | 1.83 |
| 385 | 43.19 | 39.05 | 35.51 | 1.42 | 1.78 | 2.04 | 1.41 | 1.76 | 2.06 |
| 389 | 28.32 | 24.82 | 22.32 | 1.84 | 2.36 | 2.79 | 1.83 | 2.37 | 2.86 |
| 390 | 24.97 | 21.83 | 19.53 | 2.00 | 2.60 | 3.11 | 1.99 | 2.62 | 3.21 |
| 391 | 21.88 | 19.03 | 16.92 | 2.22 | 2.91 | 3.53 | 2.21 | 2.95 | 3.67 |
| 394 | 13.78 | 11.72 | 10.25 | 3.37 | 4.66 | 5.91 | 3.39 | 4.78 | 6.21 |
| 401 | 3.50 | 3.54 | 3.54 | 17.50 | 19.81 | 20.06 | 18.41 | 21.57 | 21.49 |
| 402 | 3.08 | 3.21 | 3.26 | 20.56 | 20.68 | 19.98 | 21.74 | 21.83 | 20.72 |
| 405 | 2.37 | 2.58 | 2.69 | 19.88 | 19.60 | 19.56 | 19.69 | 19.45 | 19.62 |
| 410 | 1.78 | 1.99 | 2.11 | 21.00 | 22.76 | 24.25 | 20.39 | 22.18 | 24.32 |
| 415 | 1.44 | 1.64 | 1.77 | 32.66 | 39.03 | 34.40 | 29.30 | 32.40 | 32.57 |
| 419 | 1.28 | 1.48 | 1.61 | 29.14 | 26.54 | 24.40 | 27.96 | 25.59 | 23.58 |
| 425 | 1.15 | 1.34 | 1.47 | 19.90 | 19.58 | 18.95 | 19.76 | 19.23 | 18.45 |
| 435 | 1.05 | 1.21 | 1.33 | 16.00 | 16.33 | 16.26 | 15.94 | 16.13 | 15.96 |
| 440 | 1.01 | 1.16 | 1.27 | 15.47 | 15.93 | 15.99 | 15.45 | 15.80 | 15.79 |
| 495 | 0.65 | 0.78 | 0.87 | 20.74 | 21.18 | 21.51 | 20.66 | 21.06 | 21.33 |
| 550 | 0.63 | 0.76 | 0.85 | 17.86 | 18.40 | 18.50 | 17.22 | 17.72 | 17.78 |
| 565 | 0.63 | 0.76 | 0.86 | 17.65 | 18.20 | 18.38 | 17.32 | 17.92 | 18.13 |
| 590 | 0.62 | 0.76 | 0.86 | 18.22 | 18.60 | 18.85 | 18.63 | 19.33 | 19.82 |
| 595 | 0.62 | 0.76 | 0.86 | 18.43 | 18.74 | 18.99 | 19.03 | 19.73 | 20.26 |
| 598 | 0.62 | 0.76 | 0.86 | 18.58 | 18.836 | 19.074 | 19.3 | 19.97 | 20.524 |
| 600 | 0.62 | 0.76 | 0.86 | 18.68 | 18.90 | 19.13 | 19.48 | 20.13 | 20.70 |
| 735 | 0.96 | 1.21 | 1.39 | 24.60 | 25.73 | 25.37 | 22.02 | 21.85 | 21.03 |
| 745 | 1.06 | 1.33 | 1.53 | 24.73 | 24.70 | 24.08 | 20.89 | 20.31 | 19.52 |
| 755 | 1.20 | 1.51 | 1.73 | 22.94 | 21.95 | 21.51 | 19.31 | 18.49 | 17.89 |
| 765 | 1.38 | 1.74 | 2.01 | 21.00 | 19.89 | 19.63 | 18.03 | 17.18 | 16.75 |
| 770 | 1.51 | 1.89 | 2.18 | 20.28 | 19.30 | 19.11 | 17.65 | 16.88 | 16.54 |
| 783 | 1.97 | 2.49 | 2.90 | 20.77 | 20.68 | 20.83 | 18.89 | 18.84 | 18.90 |
| 785 | 2.08 | 2.63 | 3.09 | 21.67 | 21.72 | 21.77 | 19.80 | 19.91 | 19.93 |
| 788 | 2.28 | 2.92 | 3.47 | 23.81 | 23.26 | 22.08 | 21.67 | 21.43 | 20.47 |
| 789 | 2.37 | 3.04 | 3.63 | 24.55 | 23.17 | 21.33 | 22.26 | 21.41 | 19.85 |
| 807 | 10.57 | 12.89 | 14.89 | 4.20 | 4.11 | 3.98 | 3.59 | 3.42 | 3.26 |
| 809 | 12.71 | 15.13 | 17.21 | 3.47 | 3.52 | 3.48 | 2.91 | 2.87 | 2.81 |
| 814 | 18.79 | 21.37 | 23.62 | 2.39 | 2.61 | 2.68 | 1.93 | 2.06 | 2.12 |
| 815 | 20.12 | 22.72 | 25.01 | 2.25 | 2.48 | 2.57 | 1.81 | 1.96 | 2.02 |
| 820 | 27.43 | 30.25 | 32.74 | 1.78 | 2.03 | 2.15 | 1.41 | 1.59 | 1.68 |
| 822 | 30.79 | 33.70 | 36.21 | 1.66 | 1.91 | 2.02 | 1.30 | 1.49 | 1.59 |
| 825 | 36.50 | 39.25 | 41.02 | 1.50 | 1.75 | 1.87 | 1.19 | 1.38 | 1.48 |
| 840 | 39.83 | 40.07 | 40.31 | 1.07 | 1.27 | 1.38 | 0.87 | 1.05 | 1.14 |
| 846 | 40.04 | 40.53 | 40.95 | 0.96 | 1.15 | 1.26 | 0.81 | 0.98 | 1.07 |
| 885 | 47.85 | 48.02 | 48.13 | 0.60 | 0.73 | 0.81 | 0.63 | 0.77 | 0.85 |
| 1000 | 43.98 | 44.09 | 44.09 | 0.26 | 0.35 | 0.40 | 0.56 | 0.68 | 0.77 |
| 1150 | 49.87 | 49.84 | 49.80 | 0.10 | 0.18 | 0.22 | 0.48 | 0.65 | 0.77 |
| 1300 | 58.97 | 58.72 | 58.91 | 0.03 | 0.12 | 0.16 | 0.39 | 0.60 | 0.74 |
| 1400 | 60.64 | 60.56 | 60.71 | 0.01 | 0.10 | 0.15 | 0.37 | 0.59 | 0.72 |
| 1500 | 55.73 | 55.74 | 55.73 | 0.00 | 0.09 | 0.14 | 0.36 | 0.58 | 0.73 |
| 1580 | 49.61 | 49.65 | 49.57 | 0.00 | 0.09 | 0.14 | 0.37 | 0.59 | 0.74 |
| 1590 | 48.90 | 48.88 | 48.81 | 0.00 | 0.09 | 0.14 | 0.37 | 0.60 | 0.74 |
| 1600 | 48.04 | 48.03 | 47.93 | 0.00 | 0.09 | 0.14 | 0.38 | 0.60 | 0.74 |

Typical Performance Data

| FREQ. (MHz) | GROUP DELAY | | |
|--------------------|-------------|--------|--------|
| | (nsec) | | |
| | @-40°C | @+25°C | @+85°C |
| 410 | 16.09 | 15.16 | 14.50 |
| 411 | 15.28 | 14.45 | 13.87 |
| 412 | 14.56 | 13.83 | 13.30 |
| 413 | 13.92 | 13.26 | 12.78 |
| 414 | 13.34 | 12.74 | 12.31 |
| 415 | 12.83 | 12.27 | 11.86 |
| 416 | 12.34 | 11.82 | 11.45 |
| 417 | 11.90 | 11.42 | 11.07 |
| 418 | 11.40 | 10.96 | 10.63 |
| 419 | 10.78 | 10.38 | 10.09 |
| 420 | 10.10 | 9.75 | 9.49 |
| 430 | 8.64 | 8.39 | 8.19 |
| 440 | 7.14 | 6.98 | 6.86 |
| 450 | 5.98 | 5.89 | 5.82 |
| 460 | 5.26 | 5.20 | 5.16 |
| 470 | 4.77 | 4.73 | 4.70 |
| 480 | 4.41 | 4.38 | 4.35 |
| 490 | 4.13 | 4.10 | 4.08 |
| 500 | 3.90 | 3.87 | 3.85 |
| 510 | 3.71 | 3.69 | 3.68 |
| 520 | 3.56 | 3.54 | 3.53 |
| 530 | 3.44 | 3.42 | 3.41 |
| 540 | 3.33 | 3.32 | 3.32 |
| 550 | 3.25 | 3.25 | 3.24 |
| 560 | 3.19 | 3.19 | 3.19 |
| 570 | 3.16 | 3.16 | 3.16 |
| 580 | 3.14 | 3.14 | 3.15 |
| 590 | 3.13 | 3.13 | 3.14 |
| 595 | 3.13 | 3.14 | 3.14 |
| 598 | 3.14 | 3.14 | 3.15 |
| 600 | 3.14 | 3.14 | 3.15 |
| 610 | 3.16 | 3.16 | 3.17 |
| 620 | 3.19 | 3.19 | 3.20 |
| 630 | 3.23 | 3.24 | 3.25 |
| 640 | 3.28 | 3.29 | 3.30 |
| 650 | 3.35 | 3.36 | 3.37 |
| 660 | 3.43 | 3.44 | 3.45 |
| 670 | 3.53 | 3.54 | 3.56 |
| 680 | 3.66 | 3.68 | 3.70 |
| 690 | 3.81 | 3.84 | 3.87 |
| 700 | 4.01 | 4.04 | 4.08 |
| 710 | 4.24 | 4.29 | 4.34 |
| 720 | 4.54 | 4.60 | 4.66 |
| 730 | 4.91 | 4.98 | 5.05 |
| 740 | 5.36 | 5.46 | 5.54 |
| 745 | 5.64 | 5.74 | 5.84 |
| 750 | 5.95 | 6.07 | 6.18 |
| 760 | 6.77 | 6.93 | 7.09 |
| 770 | 7.71 | 7.94 | 8.16 |
| 775 | 8.17 | 8.42 | 8.69 |
| 776 | 8.59 | 8.88 | 9.18 |
| 777 | 8.98 | 9.30 | 9.63 |
| 778 | 9.32 | 9.68 | 10.04 |
| 779 | 9.60 | 9.99 | 10.38 |
| 780 | 9.85 | 10.27 | 10.68 |
| 781 | 10.10 | 10.55 | 11.00 |
| 782 | 10.38 | 10.87 | 11.33 |
| 783 | 10.69 | 11.20 | 11.70 |
| 784 | 11.01 | 11.57 | 12.09 |
| 785 | 11.35 | 11.95 | 12.52 |