

## Typical Performance Data

| FREQ. | INSERTION LOSS |        |        | INPUT RETURN LOSS |        |        | OUTPUT RETURN LOSS |        |        |
|-------|----------------|--------|--------|-------------------|--------|--------|--------------------|--------|--------|
| (MHz) | (dB)           |        |        | (dB)              |        |        | (dB)               |        |        |
|       | @-40°C         | @+25°C | @+85°C | @-40°C            | @+25°C | @+85°C | @-40°C             | @+25°C | @+85°C |
| 10    | 83.34          | 86.10  | 72.69  | 0.00              | 0.00   | 0.00   | 0.00               | 0.01   | 0.01   |
| 21    | 81.70          | 90.07  | 81.08  | 0.00              | 0.01   | 0.01   | 0.00               | 0.01   | 0.01   |
| 26    | 95.66          | 84.77  | 88.66  | 0.00              | 0.01   | 0.01   | 0.00               | 0.01   | 0.01   |
| 31    | 93.31          | 83.23  | 90.37  | 0.00              | 0.01   | 0.01   | 0.00               | 0.01   | 0.01   |
| 101   | 83.95          | 80.35  | 83.67  | 0.01              | 0.01   | 0.01   | 0.00               | 0.01   | 0.02   |
| 201   | 76.30          | 76.54  | 77.68  | 0.02              | 0.00   | 0.00   | 0.01               | 0.00   | 0.01   |
| 211   | 75.57          | 76.29  | 75.83  | 0.02              | 0.01   | 0.00   | 0.01               | 0.00   | 0.00   |
| 306   | 72.94          | 73.78  | 72.45  | 0.03              | 0.01   | 0.00   | 0.03               | 0.01   | 0.00   |
| 500   | 69.45          | 69.70  | 69.57  | 0.04              | 0.01   | 0.01   | 0.03               | 0.00   | 0.01   |
| 600   | 68.59          | 68.51  | 68.33  | 0.04              | 0.01   | 0.01   | 0.04               | 0.00   | 0.01   |
| 700   | 67.36          | 67.27  | 67.33  | 0.04              | 0.00   | 0.02   | 0.03               | 0.00   | 0.02   |
| 1000  | 66.40          | 66.27  | 66.44  | 0.07              | 0.01   | 0.01   | 0.06               | 0.00   | 0.02   |
| 2000  | 70.89          | 71.41  | 71.81  | 0.18              | 0.11   | 0.08   | 0.19               | 0.12   | 0.08   |
| 3000  | 68.54          | 67.38  | 68.54  | 0.19              | 0.10   | 0.07   | 0.19               | 0.11   | 0.08   |
| 3510  | 60.75          | 59.52  | 60.78  | 0.15              | 0.04   | 0.02   | 0.15               | 0.04   | 0.03   |
| 3600  | 61.60          | 61.25  | 63.53  | 0.14              | 0.02   | 0.05   | 0.14               | 0.03   | 0.05   |
| 3800  | 56.12          | 55.74  | 56.28  | 0.13              | 0.01   | 0.10   | 0.12               | 0.01   | 0.10   |
| 3900  | 55.56          | 55.37  | 55.77  | 0.13              | 0.01   | 0.11   | 0.12               | 0.01   | 0.11   |
| 3600  | 61.60          | 61.25  | 63.53  | 0.14              | 0.02   | 0.05   | 0.14               | 0.03   | 0.05   |
| 4000  | 53.87          | 53.89  | 54.67  | 0.13              | 0.02   | 0.12   | 0.11               | 0.02   | 0.12   |
| 4100  | 53.91          | 53.68  | 54.88  | 0.11              | 0.03   | 0.13   | 0.10               | 0.04   | 0.14   |
| 4200  | 59.11          | 57.93  | 63.54  | 0.11              | 0.05   | 0.15   | 0.08               | 0.06   | 0.17   |
| 4300  | 49.79          | 48.45  | 47.30  | 0.09              | 0.07   | 0.18   | 0.07               | 0.08   | 0.19   |
| 4410  | 30.38          | 29.28  | 27.96  | 0.02              | 0.21   | 0.33   | 0.03               | 0.21   | 0.33   |
| 4430  | 26.49          | 25.30  | 23.85  | 0.08              | 0.28   | 0.42   | 0.09               | 0.28   | 0.43   |
| 4502  | 8.57           | 6.99   | 5.25   | 1.83              | 3.10   | 5.12   | 1.85               | 3.17   | 5.33   |
| 4511  | 6.07           | 4.79   | 3.58   | 3.19              | 5.37   | 9.00   | 3.23               | 5.53   | 9.54   |
| 4520  | 3.96           | 3.22   | 2.66   | 5.77              | 9.45   | 14.40  | 5.87               | 9.89   | 16.19  |
| 4555  | 1.51           | 1.84   | 2.05   | 13.72             | 12.48  | 11.10  | 14.02              | 12.61  | 11.13  |
| 4560  | 1.48           | 1.79   | 1.98   | 12.91             | 12.42  | 11.49  | 13.10              | 12.50  | 11.48  |
| 4566  | 1.43           | 1.71   | 1.89   | 12.60             | 12.82  | 12.34  | 12.72              | 12.87  | 12.28  |
| 4602  | 1.05           | 1.35   | 1.53   | 23.41             | 27.09  | 26.72  | 22.73              | 26.20  | 23.55  |
| 4625  | 1.02           | 1.38   | 1.57   | 20.84             | 17.53  | 16.91  | 20.17              | 17.28  | 16.48  |
| 4629  | 1.03           | 1.39   | 1.58   | 19.59             | 16.88  | 16.41  | 19.07              | 16.65  | 16.04  |
| 4680  | 1.07           | 1.43   | 1.67   | 21.02             | 21.61  | 20.74  | 20.49              | 21.17  | 20.39  |
| 4692  | 1.11           | 1.49   | 1.78   | 24.03             | 24.12  | 21.02  | 23.28              | 23.94  | 20.97  |
| 4695  | 1.13           | 1.52   | 1.82   | 24.49             | 24.13  | 20.47  | 23.74              | 24.14  | 20.52  |
| 4733  | 2.19           | 3.14   | 4.22   | 10.01             | 8.26   | 6.39   | 10.22              | 8.45   | 6.54   |
| 4735  | 2.36           | 3.38   | 4.53   | 9.19              | 7.57   | 5.87   | 9.39               | 7.74   | 6.01   |
| 4769  | 8.63           | 10.47  | 12.08  | 1.86              | 1.77   | 1.64   | 1.94               | 1.82   | 1.69   |
| 4771  | 9.13           | 10.98  | 12.58  | 1.71              | 1.65   | 1.55   | 1.78               | 1.70   | 1.60   |
| 4715  | 1.37           | 1.90   | 2.44   | 18.89             | 16.42  | 12.79  | 19.16              | 16.89  | 13.06  |
| 4775  | 10.14          | 11.98  | 13.56  | 1.45              | 1.45   | 1.39   | 1.52               | 1.49   | 1.44   |
| 4811  | 18.80          | 20.45  | 21.76  | 0.48              | 0.66   | 0.74   | 0.52               | 0.67   | 0.77   |
| 4854  | 27.36          | 28.74  | 29.88  | 0.22              | 0.40   | 0.51   | 0.24               | 0.41   | 0.52   |
| 5000  | 48.94          | 49.76  | 50.90  | 0.01              | 0.18   | 0.27   | 0.01               | 0.18   | 0.28   |
| 5105  | 48.82          | 49.20  | 48.59  | 0.02              | 0.15   | 0.23   | 0.02               | 0.15   | 0.24   |
| 5300  | 47.51          | 48.11  | 47.16  | 0.06              | 0.10   | 0.17   | 0.07               | 0.08   | 0.17   |
| 5405  | 47.28          | 47.82  | 46.78  | 0.07              | 0.08   | 0.16   | 0.07               | 0.08   | 0.16   |
| 5600  | 46.24          | 46.57  | 45.66  | 0.09              | 0.06   | 0.12   | 0.10               | 0.05   | 0.12   |
| 5660  | 46.30          | 47.01  | 45.94  | 0.09              | 0.05   | 0.11   | 0.09               | 0.06   | 0.12   |
| 5705  | 45.57          | 46.23  | 45.49  | 0.09              | 0.05   | 0.11   | 0.09               | 0.06   | 0.12   |
| 5810  | 45.89          | 46.37  | 45.40  | 0.11              | 0.04   | 0.09   | 0.10               | 0.05   | 0.10   |
| 5900  | 46.95          | 48.13  | 46.33  | 0.12              | 0.03   | 0.08   | 0.11               | 0.03   | 0.10   |
| 6005  | 48.17          | 49.39  | 46.86  | 0.13              | 0.03   | 0.08   | 0.11               | 0.04   | 0.10   |
| 6110  | 48.86          | 49.88  | 47.40  | 0.13              | 0.02   | 0.07   | 0.11               | 0.04   | 0.10   |
| 6200  | 46.98          | 47.43  | 45.97  | 0.13              | 0.02   | 0.07   | 0.10               | 0.05   | 0.12   |
| 6500  | 42.14          | 41.86  | 41.77  | 0.11              | 0.05   | 0.10   | 0.04               | 0.13   | 0.21   |
| 6600  | 42.40          | 42.19  | 41.53  | 0.11              | 0.06   | 0.13   | 0.01               | 0.17   | 0.26   |
| 7000  | 38.75          | 37.46  | 38.04  | 0.02              | 0.17   | 0.29   | 0.31               | 0.60   | 0.81   |

*Typical Performance Data*

| FREQ. | GROUP DELAY |        |        |
|-------|-------------|--------|--------|
| (MHz) | (nsec)      |        |        |
|       | @-40°C      | @+25°C | @+85°C |
| 4555  | 5.26        | 4.86   | 4.51   |
| 4557  | 5.14        | 4.78   | 4.47   |
| 4560  | 4.99        | 4.68   | 4.42   |
| 4563  | 4.86        | 4.60   | 4.38   |
| 4566  | 4.75        | 4.54   | 4.35   |
| 4569  | 4.65        | 4.49   | 4.33   |
| 4572  | 4.58        | 4.45   | 4.31   |
| 4575  | 4.52        | 4.42   | 4.30   |
| 4578  | 4.47        | 4.39   | 4.29   |
| 4581  | 4.44        | 4.37   | 4.28   |
| 4584  | 4.41        | 4.35   | 4.27   |
| 4587  | 4.38        | 4.33   | 4.26   |
| 4590  | 4.36        | 4.31   | 4.24   |
| 4593  | 4.34        | 4.29   | 4.22   |
| 4596  | 4.32        | 4.27   | 4.21   |
| 4599  | 4.30        | 4.25   | 4.18   |
| 4602  | 4.28        | 4.23   | 4.16   |
| 4605  | 4.26        | 4.20   | 4.14   |
| 4608  | 4.24        | 4.18   | 4.11   |
| 4611  | 4.22        | 4.15   | 4.09   |
| 4614  | 4.20        | 4.12   | 4.07   |
| 4617  | 4.17        | 4.10   | 4.05   |
| 4620  | 4.15        | 4.08   | 4.03   |
| 4625  | 4.11        | 4.05   | 4.01   |
| 4626  | 4.11        | 4.04   | 4.01   |
| 4629  | 4.09        | 4.03   | 4.00   |
| 4632  | 4.07        | 4.02   | 4.00   |
| 4635  | 4.06        | 4.02   | 4.00   |
| 4695  | 4.65        | 4.79   | 4.96   |