

*Typical Performance Data*

| FREQ.<br><br>(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                 | 80.47          | 77.58  | 79.77  | 0.00              | 0.00   | 0.01   | 0.00               | 0.00   | 0.00   |
| 20                 | 83.66          | 92.38  | 83.14  | 0.00              | 0.00   | 0.00   | 0.00               | 0.00   | 0.01   |
| 50                 | 73.26          | 72.87  | 72.82  | 0.00              | 0.00   | 0.01   | 0.00               | 0.00   | 0.00   |
| 75                 | 95.04          | 101.94 | 99.71  | 0.00              | 0.00   | 0.00   | 0.00               | 0.00   | 0.00   |
| 100                | 85.58          | 85.22  | 87.31  | 0.01              | 0.00   | 0.00   | 0.00               | 0.00   | 0.00   |
| 150                | 91.09          | 108.68 | 89.91  | 0.01              | 0.00   | 0.00   | 0.01               | 0.00   | 0.00   |
| 200                | 95.10          | 95.44  | 98.30  | 0.02              | 0.00   | 0.00   | 0.01               | 0.00   | 0.01   |
| 250                | 91.04          | 87.71  | 87.48  | 0.02              | 0.00   | 0.00   | 0.01               | 0.01   | 0.01   |
| 300                | 93.73          | 95.86  | 91.60  | 0.02              | 0.00   | 0.00   | 0.00               | 0.01   | 0.02   |
| 350                | 90.15          | 92.78  | 87.79  | 0.02              | 0.00   | 0.01   | 0.01               | 0.03   | 0.03   |
| 400                | 90.12          | 93.60  | 92.10  | 0.02              | 0.01   | 0.01   | 0.02               | 0.04   | 0.05   |
| 500                | 111.53         | 98.01  | 97.43  | 0.02              | 0.01   | 0.02   | 0.04               | 0.07   | 0.08   |
| 1000               | 100.88         | 99.13  | 94.07  | 0.00              | 0.07   | 0.09   | 0.22               | 0.28   | 0.31   |
| 1100               | 93.11          | 95.08  | 98.15  | 0.02              | 0.08   | 0.11   | 0.23               | 0.28   | 0.32   |
| 1150               | 93.27          | 91.12  | 90.25  | 0.03              | 0.09   | 0.12   | 0.22               | 0.28   | 0.32   |
| 1200               | 85.51          | 90.64  | 86.14  | 0.04              | 0.11   | 0.13   | 0.22               | 0.28   | 0.31   |
| 1250               | 83.27          | 82.91  | 83.52  | 0.05              | 0.12   | 0.15   | 0.21               | 0.27   | 0.31   |
| 1300               | 77.45          | 77.23  | 78.05  | 0.07              | 0.14   | 0.17   | 0.20               | 0.26   | 0.30   |
| 1500               | 51.58          | 51.42  | 51.20  | 0.16              | 0.23   | 0.27   | 0.21               | 0.28   | 0.32   |
| 1550               | 44.01          | 43.83  | 43.63  | 0.20              | 0.28   | 0.32   | 0.23               | 0.31   | 0.36   |
| 1630               | 30.35          | 30.14  | 29.94  | 0.31              | 0.41   | 0.47   | 0.36               | 0.45   | 0.52   |
| 1675               | 21.29          | 21.08  | 20.87  | 0.48              | 0.60   | 0.68   | 0.57               | 0.69   | 0.77   |
| 1700               | 15.64          | 15.43  | 15.22  | 0.73              | 0.89   | 1.01   | 0.89               | 1.04   | 1.16   |
| 1755               | 3.47           | 3.50   | 3.48   | 5.54              | 6.10   | 6.58   | 6.16               | 6.72   | 7.25   |
| 1900               | 0.81           | 0.95   | 1.04   | 16.84             | 16.92  | 16.95  | 16.43              | 16.51  | 16.50  |
| 1950               | 0.75           | 0.89   | 0.98   | 16.61             | 16.71  | 16.71  | 16.64              | 16.77  | 16.71  |
| 2000               | 0.63           | 0.76   | 0.85   | 22.66             | 22.77  | 22.69  | 24.18              | 24.39  | 24.04  |
| 2050               | 0.58           | 0.71   | 0.80   | 28.47             | 28.56  | 29.39  | 28.11              | 28.34  | 28.94  |
| 2100               | 0.59           | 0.72   | 0.80   | 20.70             | 21.05  | 21.22  | 19.56              | 19.85  | 19.92  |
| 2150               | 0.59           | 0.72   | 0.80   | 19.39             | 19.87  | 19.84  | 18.25              | 18.59  | 18.46  |
| 2200               | 0.57           | 0.70   | 0.79   | 21.08             | 21.54  | 21.25  | 19.63              | 19.83  | 19.44  |
| 2250               | 0.54           | 0.68   | 0.77   | 23.13             | 23.20  | 22.71  | 21.27              | 21.11  | 20.62  |
| 2300               | 0.54           | 0.68   | 0.77   | 21.79             | 21.74  | 21.53  | 20.62              | 20.50  | 20.33  |
| 2400               | 0.56           | 0.71   | 0.79   | 20.23             | 20.12  | 20.39  | 20.56              | 20.49  | 20.83  |
| 2450               | 0.57           | 0.72   | 0.81   | 22.47             | 22.32  | 22.95  | 23.65              | 23.46  | 24.18  |
| 2500               | 0.59           | 0.75   | 0.85   | 27.81             | 28.49  | 28.50  | 33.48              | 36.98  | 37.03  |
| 2600               | 2.12           | 2.43   | 2.62   | 5.95              | 5.83   | 5.74   | 6.74               | 6.60   | 6.53   |
| 2615               | 2.88           | 3.21   | 3.42   | 4.41              | 4.36   | 4.33   | 5.15               | 5.07   | 5.05   |
| 2700               | 9.74           | 10.06  | 10.27  | 0.78              | 0.90   | 0.96   | 1.29               | 1.39   | 1.45   |
| 2800               | 18.34          | 18.56  | 18.75  | 0.19              | 0.32   | 0.39   | 0.54               | 0.65   | 0.71   |
| 2820               | 19.89          | 20.10  | 20.29  | 0.16              | 0.29   | 0.37   | 0.49               | 0.59   | 0.65   |
| 2950               | 28.75          | 28.96  | 29.15  | 0.09              | 0.22   | 0.30   | 0.29               | 0.39   | 0.45   |
| 3000               | 31.72          | 31.93  | 32.12  | 0.09              | 0.22   | 0.30   | 0.25               | 0.35   | 0.41   |
| 3100               | 37.14          | 37.35  | 37.54  | 0.08              | 0.22   | 0.31   | 0.19               | 0.29   | 0.36   |
| 3200               | 41.90          | 42.11  | 42.30  | 0.09              | 0.22   | 0.31   | 0.15               | 0.25   | 0.32   |
| 3300               | 45.66          | 45.82  | 45.96  | 0.09              | 0.22   | 0.32   | 0.12               | 0.22   | 0.29   |
| 3400               | 43.88          | 43.59  | 43.24  | 0.10              | 0.24   | 0.33   | 0.13               | 0.24   | 0.32   |
| 3550               | 80.77          | 81.46  | 82.63  | 0.11              | 0.23   | 0.32   | 0.08               | 0.18   | 0.26   |
| 3600               | 92.01          | 90.80  | 93.35  | 0.11              | 0.24   | 0.31   | 0.07               | 0.18   | 0.25   |
| 3700               | 83.41          | 83.23  | 84.15  | 0.12              | 0.24   | 0.31   | 0.06               | 0.17   | 0.25   |
| 3800               | 88.48          | 86.43  | 87.90  | 0.13              | 0.25   | 0.31   | 0.06               | 0.16   | 0.24   |
| 3900               | 87.66          | 85.67  | 87.03  | 0.13              | 0.25   | 0.32   | 0.06               | 0.16   | 0.24   |
| 4000               | 70.37          | 69.47  | 67.40  | 0.22              | 0.36   | 0.45   | 0.06               | 0.16   | 0.24   |
| 4100               | 42.34          | 41.90  | 40.75  | 1.24              | 1.57   | 1.93   | 0.06               | 0.16   | 0.24   |
| 4200               | 39.80          | 39.73  | 39.42  | 0.65              | 0.90   | 1.12   | 0.06               | 0.16   | 0.23   |
| 4300               | 34.13          | 34.98  | 35.79  | 3.36              | 3.18   | 2.87   | 0.06               | 0.16   | 0.24   |
| 4400               | 43.14          | 43.54  | 43.84  | 0.43              | 0.59   | 0.67   | 0.06               | 0.16   | 0.23   |
| 5000               | 53.18          | 53.48  | 53.64  | 0.05              | 0.30   | 0.50   | 0.09               | 0.18   | 0.24   |
| 5500               | 64.40          | 64.59  | 65.49  | 0.07              | 0.31   | 0.50   | 0.11               | 0.21   | 0.26   |
| 6000               | 43.62          | 43.44  | 43.38  | 0.35              | 0.53   | 0.60   | 0.13               | 0.22   | 0.27   |

*Typical Performance Data*

| FREQ.<br><br>(MHz) | GROUP DELAY |        |        |
|--------------------|-------------|--------|--------|
|                    | (ns)        |        |        |
|                    | @-40°C      | @+25°C | @+85°C |
| 2000               | 2.23        | 2.22   | 2.20   |
| 2010               | 2.20        | 2.19   | 2.17   |
| 2020               | 2.17        | 2.16   | 2.15   |
| 2030               | 2.15        | 2.13   | 2.12   |
| 2040               | 2.12        | 2.10   | 2.09   |
| 2050               | 2.09        | 2.07   | 2.06   |
| 2060               | 2.06        | 2.05   | 2.04   |
| 2070               | 2.04        | 2.02   | 2.01   |
| 2080               | 2.01        | 2.00   | 1.98   |
| 2090               | 1.99        | 1.97   | 1.96   |
| 2100               | 1.96        | 1.95   | 1.94   |
| 2110               | 1.94        | 1.93   | 1.92   |
| 2120               | 1.92        | 1.91   | 1.90   |
| 2130               | 1.90        | 1.89   | 1.88   |
| 2140               | 1.89        | 1.88   | 1.87   |
| 2150               | 1.87        | 1.86   | 1.85   |
| 2160               | 1.86        | 1.85   | 1.84   |
| 2170               | 1.85        | 1.84   | 1.83   |
| 2180               | 1.84        | 1.83   | 1.82   |
| 2190               | 1.83        | 1.82   | 1.81   |
| 2200               | 1.82        | 1.81   | 1.80   |
| 2210               | 1.82        | 1.80   | 1.79   |
| 2220               | 1.81        | 1.80   | 1.79   |
| 2230               | 1.80        | 1.79   | 1.78   |
| 2240               | 1.80        | 1.79   | 1.78   |
| 2250               | 1.79        | 1.78   | 1.77   |
| 2260               | 1.79        | 1.78   | 1.77   |
| 2270               | 1.78        | 1.77   | 1.76   |
| 2280               | 1.78        | 1.77   | 1.76   |
| 2290               | 1.78        | 1.76   | 1.75   |
| 2300               | 1.77        | 1.76   | 1.75   |
| 2310               | 1.77        | 1.76   | 1.75   |
| 2320               | 1.77        | 1.76   | 1.75   |
| 2330               | 1.77        | 1.76   | 1.75   |
| 2340               | 1.77        | 1.76   | 1.75   |
| 2350               | 1.77        | 1.76   | 1.76   |
| 2360               | 1.78        | 1.77   | 1.76   |
| 2370               | 1.78        | 1.77   | 1.77   |
| 2380               | 1.79        | 1.78   | 1.77   |
| 2390               | 1.80        | 1.79   | 1.78   |
| 2400               | 1.81        | 1.80   | 1.79   |
| 2410               | 1.82        | 1.81   | 1.80   |
| 2420               | 1.83        | 1.82   | 1.82   |
| 2430               | 1.85        | 1.84   | 1.84   |
| 2440               | 1.87        | 1.86   | 1.85   |
| 2450               | 1.89        | 1.88   | 1.88   |
| 2460               | 1.91        | 1.91   | 1.90   |
| 2470               | 1.94        | 1.94   | 1.93   |
| 2480               | 1.98        | 1.97   | 1.97   |
| 2490               | 2.02        | 2.01   | 2.01   |
| 2500               | 2.06        | 2.06   | 2.06   |