

*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                 | 0.10           | 0.11   | 0.12   | 40.02             | 40.16  | 38.78  | 39.89              | 39.81  | 38.14  |
| 50                 | 0.11           | 0.12   | 0.13   | 41.50             | 37.37  | 35.44  | 40.05              | 36.70  | 34.71  |
| 100                | 0.12           | 0.15   | 0.16   | 37.10             | 34.80  | 32.85  | 35.35              | 33.47  | 31.76  |
| 250                | 0.17           | 0.20   | 0.21   | 27.35             | 31.06  | 33.59  | 26.05              | 28.06  | 29.10  |
| 400                | 0.20           | 0.25   | 0.26   | 27.73             | 28.88  | 33.25  | 24.66              | 24.69  | 25.73  |
| 550                | 0.24           | 0.30   | 0.32   | 25.43             | 25.88  | 27.13  | 22.26              | 22.05  | 22.18  |
| 700                | 0.28           | 0.35   | 0.38   | 22.52             | 23.00  | 23.47  | 20.20              | 20.14  | 20.08  |
| 1000               | 0.39           | 0.47   | 0.52   | 18.93             | 19.30  | 19.31  | 18.14              | 18.17  | 17.96  |
| 1200               | 0.46           | 0.56   | 0.61   | 18.50             | 18.99  | 18.94  | 18.51              | 18.71  | 18.45  |
| 1400               | 0.54           | 0.66   | 0.72   | 20.90             | 21.35  | 21.47  | 21.55              | 21.62  | 21.43  |
| 1460               | 0.58           | 0.70   | 0.77   | 22.78             | 22.99  | 23.32  | 23.35              | 23.05  | 22.89  |
| 1650               | 0.75           | 0.92   | 1.00   | 28.89             | 27.61  | 27.36  | 23.77              | 22.71  | 22.27  |
| 1740               | 0.91           | 1.09   | 1.19   | 23.92             | 23.38  | 23.35  | 20.43              | 19.72  | 19.39  |
| 1750               | 0.93           | 1.12   | 1.22   | 23.40             | 22.93  | 22.95  | 20.06              | 19.41  | 19.07  |
| 1800               | 1.05           | 1.26   | 1.38   | 21.09             | 21.21  | 21.21  | 18.51              | 18.06  | 17.74  |
| 2020               | 2.53           | 3.09   | 3.51   | 13.15             | 12.08  | 11.35  | 10.58              | 9.64   | 9.07   |
| 2030               | 2.73           | 3.34   | 3.80   | 12.29             | 11.19  | 10.48  | 9.95               | 9.02   | 8.47   |
| 2250               | 17.99          | 20.08  | 21.65  | 1.82              | 1.87   | 1.88   | 2.17               | 2.33   | 2.42   |
| 2325               | 27.79          | 30.51  | 32.64  | 1.26              | 1.38   | 1.43   | 1.80               | 2.01   | 2.12   |
| 2450               | 44.15          | 42.94  | 42.31  | 0.85              | 1.01   | 1.07   | 1.46               | 1.67   | 1.77   |
| 2700               | 47.65          | 49.22  | 50.39  | 0.51              | 0.68   | 0.75   | 0.98               | 1.15   | 1.22   |
| 2900               | 61.42          | 59.77  | 58.87  | 0.39              | 0.56   | 0.63   | 0.74               | 0.87   | 0.92   |
| 3000               | 56.18          | 55.92  | 55.80  | 0.36              | 0.51   | 0.59   | 0.65               | 0.78   | 0.81   |
| 3250               | 57.58          | 58.44  | 59.01  | 0.28              | 0.43   | 0.49   | 0.48               | 0.60   | 0.62   |
| 3400               | 64.29          | 66.13  | 67.72  | 0.23              | 0.39   | 0.43   | 0.42               | 0.53   | 0.54   |
| 3550               | 75.63          | 71.59  | 68.98  | 0.19              | 0.35   | 0.38   | 0.37               | 0.47   | 0.48   |
| 3700               | 63.20          | 62.21  | 61.38  | 0.18              | 0.32   | 0.34   | 0.33               | 0.43   | 0.43   |
| 3850               | 58.11          | 57.95  | 57.89  | 0.16              | 0.29   | 0.31   | 0.29               | 0.39   | 0.39   |
| 4000               | 57.11          | 56.80  | 56.61  | 0.14              | 0.27   | 0.28   | 0.26               | 0.36   | 0.36   |
| 4150               | 56.16          | 55.54  | 55.28  | 0.12              | 0.24   | 0.24   | 0.23               | 0.33   | 0.33   |
| 4300               | 55.32          | 55.12  | 55.14  | 0.08              | 0.21   | 0.21   | 0.20               | 0.30   | 0.30   |
| 4450               | 56.00          | 56.70  | 56.45  | 0.07              | 0.19   | 0.19   | 0.18               | 0.28   | 0.28   |
| 4600               | 56.01          | 56.06  | 55.22  | 0.06              | 0.18   | 0.18   | 0.15               | 0.26   | 0.26   |
| 4750               | 56.36          | 57.08  | 55.31  | 0.05              | 0.17   | 0.17   | 0.12               | 0.24   | 0.25   |
| 4900               | 54.93          | 57.47  | 56.31  | 0.03              | 0.17   | 0.17   | 0.10               | 0.22   | 0.24   |
| 5050               | 58.45          | 58.14  | 57.61  | 0.02              | 0.16   | 0.17   | 0.07               | 0.19   | 0.22   |
| 5200               | 56.28          | 59.01  | 56.09  | 0.01              | 0.16   | 0.17   | 0.06               | 0.21   | 0.24   |
| 5350               | 59.98          | 56.81  | 57.31  | 0.01              | 0.16   | 0.17   | 0.04               | 0.19   | 0.23   |
| 5500               | 56.72          | 56.34  | 55.99  | 0.00              | 0.16   | 0.18   | 0.03               | 0.20   | 0.25   |
| 5650               | 53.39          | 55.30  | 55.16  | 0.00              | 0.18   | 0.20   | 0.03               | 0.22   | 0.27   |
| 5800               | 52.59          | 54.89  | 56.91  | 0.02              | 0.20   | 0.22   | 0.02               | 0.21   | 0.26   |
| 5950               | 49.91          | 52.31  | 52.05  | 0.03              | 0.21   | 0.24   | 0.04               | 0.24   | 0.30   |
| 6100               | 53.77          | 51.72  | 50.01  | 0.02              | 0.22   | 0.25   | 0.04               | 0.26   | 0.33   |
| 6250               | 49.73          | 48.20  | 48.18  | 0.02              | 0.23   | 0.27   | 0.04               | 0.28   | 0.36   |
| 6400               | 48.28          | 50.51  | 49.83  | 0.04              | 0.23   | 0.28   | 0.07               | 0.30   | 0.38   |
| 6550               | 52.30          | 49.42  | 49.09  | 0.05              | 0.24   | 0.29   | 0.08               | 0.32   | 0.39   |
| 6600               | 49.78          | 49.27  | 51.78  | 0.04              | 0.26   | 0.29   | 0.09               | 0.33   | 0.40   |
| 6850               | 50.23          | 49.51  | 47.15  | 0.04              | 0.27   | 0.32   | 0.11               | 0.35   | 0.44   |
| 7000               | 47.30          | 49.20  | 48.15  | 0.04              | 0.27   | 0.33   | 0.13               | 0.37   | 0.45   |
| 7150               | 49.02          | 46.71  | 48.07  | 0.04              | 0.27   | 0.34   | 0.15               | 0.40   | 0.47   |
| 7300               | 48.81          | 47.75  | 45.81  | 0.03              | 0.25   | 0.35   | 0.15               | 0.38   | 0.46   |
| 7450               | 44.86          | 44.86  | 43.12  | 0.02              | 0.26   | 0.36   | 0.17               | 0.41   | 0.49   |
| 7600               | 44.23          | 44.00  | 42.72  | 0.03              | 0.27   | 0.39   | 0.19               | 0.41   | 0.49   |
| 7750               | 41.53          | 41.00  | 40.10  | 0.04              | 0.30   | 0.45   | 0.19               | 0.43   | 0.49   |
| 7900               | 40.72          | 39.94  | 41.85  | 0.06              | 0.33   | 0.43   | 0.20               | 0.44   | 0.46   |
| 8050               | 41.32          | 40.91  | 40.61  | 0.04              | 0.29   | 0.43   | 0.20               | 0.41   | 0.45   |
| 8200               | 39.95          | 40.51  | 39.50  | 0.02              | 0.31   | 0.46   | 0.20               | 0.40   | 0.45   |
| 9000               | 41.23          | 41.47  | 40.01  | 0.08              | 0.40   | 0.59   | 0.16               | 0.35   | 0.36   |
| 9300               | 38.37          | 38.45  | 38.71  | 0.12              | 0.45   | 0.59   | 0.12               | 0.33   | 0.32   |
| 10000              | 35.19          | 34.38  | 35.72  | 0.24              | 0.65   | 0.69   | 0.07               | 0.32   | 0.28   |

*Typical Performance Data*

| FREQ.<br><br>(MHz) | GROUP DELAY |        |        |
|--------------------|-------------|--------|--------|
|                    | (nsec)      |        |        |
|                    | @-40°C      | @+25°C | @+85°C |
| 10                 | 0.25        | 0.28   | 0.27   |
| 30                 | 0.28        | 0.29   | 0.28   |
| 80                 | 0.30        | 0.29   | 0.29   |
| 130                | 0.30        | 0.29   | 0.28   |
| 180                | 0.30        | 0.29   | 0.28   |
| 230                | 0.29        | 0.29   | 0.28   |
| 280                | 0.30        | 0.29   | 0.28   |
| 330                | 0.30        | 0.29   | 0.29   |
| 380                | 0.30        | 0.29   | 0.29   |
| 400                | 0.30        | 0.29   | 0.29   |
| 480                | 0.30        | 0.30   | 0.29   |
| 500                | 0.31        | 0.30   | 0.29   |
| 580                | 0.31        | 0.30   | 0.30   |
| 630                | 0.31        | 0.31   | 0.30   |
| 680                | 0.32        | 0.31   | 0.30   |
| 730                | 0.32        | 0.31   | 0.31   |
| 780                | 0.33        | 0.32   | 0.31   |
| 830                | 0.33        | 0.32   | 0.32   |
| 880                | 0.34        | 0.33   | 0.33   |
| 930                | 0.34        | 0.34   | 0.33   |
| 980                | 0.35        | 0.34   | 0.34   |
| 1000               | 0.35        | 0.35   | 0.34   |
| 1080               | 0.37        | 0.36   | 0.36   |
| 1130               | 0.38        | 0.37   | 0.37   |
| 1180               | 0.39        | 0.38   | 0.38   |
| 1230               | 0.40        | 0.40   | 0.39   |
| 1280               | 0.42        | 0.41   | 0.41   |
| 1330               | 0.43        | 0.43   | 0.43   |
| 1400               | 0.46        | 0.45   | 0.45   |
| 1430               | 0.47        | 0.47   | 0.47   |
| 1480               | 0.49        | 0.49   | 0.49   |
| 1530               | 0.52        | 0.52   | 0.52   |
| 1580               | 0.55        | 0.55   | 0.55   |
| 1630               | 0.58        | 0.59   | 0.59   |
| 1680               | 0.62        | 0.63   | 0.63   |
| 1700               | 0.64        | 0.65   | 0.65   |
| 1750               | 0.69        | 0.70   | 0.71   |
| 1770               | 0.71        | 0.72   | 0.73   |
| 1780               | 0.72        | 0.73   | 0.74   |
| 1790               | 0.73        | 0.75   | 0.76   |
| 1800               | 0.74        | 0.76   | 0.77   |