

Typical Performance Data

| FREQUENCY<br>(GHz) | INSERTION LOSS<br>(dB) |        |         | AMPLITUDE UNBALANCE<br>(dB) |        |         | PHASE UNBALANCE<br>(Degree) |        |         | ISOLATION<br>(dB) |        |         |
|--------------------|------------------------|--------|---------|-----------------------------|--------|---------|-----------------------------|--------|---------|-------------------|--------|---------|
|                    | @+25°C                 | @-55°C | @+125°C | @+25°C                      | @-55°C | @+125°C | @+25°C                      | @-55°C | @+125°C | @+25°C            | @-55°C | @+125°C |
| 1000.00            | 1.67                   | 1.62   | 1.73    | 7.58                        | 7.66   | 7.49    | 0.87                        | 0.65   | 0.95    | 23.85             | 24.21  | 23.60   |
| 1200.00            | 1.18                   | 1.13   | 1.25    | 6.11                        | 6.19   | 6.02    | 0.59                        | 0.41   | 0.68    | 23.34             | 23.66  | 23.13   |
| 1400.00            | 0.85                   | 0.79   | 0.92    | 4.88                        | 4.95   | 4.78    | 0.45                        | 0.25   | 0.51    | 22.95             | 23.30  | 22.69   |
| 1600.00            | 0.63                   | 0.55   | 0.70    | 3.83                        | 3.90   | 3.73    | 0.27                        | 0.07   | 0.29    | 22.42             | 22.89  | 21.92   |
| 1800.00            | 0.50                   | 0.42   | 0.58    | 2.93                        | 3.01   | 2.84    | 0.14                        | 0.10   | 0.19    | 21.87             | 22.39  | 21.24   |
| 2000.00            | 0.43                   | 0.34   | 0.51    | 2.15                        | 2.22   | 2.05    | 0.10                        | 0.16   | 0.17    | 20.73             | 21.26  | 20.11   |
| 2500.00            | 0.44                   | 0.34   | 0.56    | 0.69                        | 0.74   | 0.62    | 0.64                        | 0.28   | 0.95    | 19.32             | 19.92  | 18.67   |
| 2600.00            | 0.45                   | 0.35   | 0.57    | 0.47                        | 0.51   | 0.40    | 0.78                        | 0.39   | 1.12    | 18.84             | 19.37  | 18.27   |
| 2700.00            | 0.47                   | 0.36   | 0.59    | 0.29                        | 0.32   | 0.24    | 1.03                        | 0.65   | 1.36    | 18.57             | 19.05  | 18.07   |
| 2800.00            | 0.48                   | 0.37   | 0.60    | 0.13                        | 0.16   | 0.09    | 1.15                        | 0.77   | 1.47    | 18.56             | 19.01  | 18.08   |
| 2900.00            | 0.49                   | 0.38   | 0.62    | 0.00                        | 0.02   | 0.02    | 1.30                        | 0.89   | 1.53    | 18.56             | 19.01  | 18.08   |
| 3000.00            | 0.48                   | 0.38   | 0.61    | 0.11                        | 0.10   | 0.13    | 1.24                        | 0.83   | 1.44    | 18.69             | 19.17  | 18.24   |
| 3100.00            | 0.48                   | 0.37   | 0.61    | 0.21                        | 0.21   | 0.22    | 1.18                        | 0.80   | 1.33    | 18.81             | 19.31  | 18.38   |
| 3200.00            | 0.47                   | 0.37   | 0.61    | 0.31                        | 0.31   | 0.30    | 1.07                        | 0.70   | 1.18    | 18.89             | 19.38  | 18.50   |
| 3300.00            | 0.47                   | 0.36   | 0.60    | 0.37                        | 0.38   | 0.36    | 0.95                        | 0.59   | 1.01    | 19.03             | 19.50  | 18.70   |
| 3400.00            | 0.46                   | 0.35   | 0.59    | 0.44                        | 0.45   | 0.43    | 0.73                        | 0.43   | 0.73    | 19.28             | 19.70  | 19.01   |
| 3500.00            | 0.45                   | 0.34   | 0.59    | 0.48                        | 0.50   | 0.47    | 0.52                        | 0.25   | 0.44    | 19.58             | 19.94  | 19.35   |
| 3600.00            | 0.44                   | 0.34   | 0.58    | 0.52                        | 0.55   | 0.51    | 0.34                        | 0.12   | 0.25    | 19.76             | 20.11  | 19.62   |
| 3700.00            | 0.42                   | 0.31   | 0.56    | 0.56                        | 0.58   | 0.54    | 0.09                        | 0.13   | 0.05    | 20.25             | 20.59  | 20.15   |
| 3800.00            | 0.42                   | 0.31   | 0.56    | 0.58                        | 0.60   | 0.55    | 0.17                        | 0.39   | 0.30    | 20.91             | 21.27  | 20.78   |
| 3900.00            | 0.40                   | 0.29   | 0.54    | 0.58                        | 0.61   | 0.56    | 0.41                        | 0.57   | 0.53    | 21.58             | 21.98  | 21.47   |
| 4000.00            | 0.39                   | 0.28   | 0.54    | 0.59                        | 0.63   | 0.56    | 0.61                        | 0.79   | 0.79    | 22.37             | 22.74  | 22.24   |
| 4100.00            | 0.37                   | 0.27   | 0.53    | 0.58                        | 0.62   | 0.55    | 0.74                        | 0.95   | 0.94    | 23.02             | 23.37  | 22.93   |
| 4200.00            | 0.38                   | 0.27   | 0.53    | 0.55                        | 0.59   | 0.50    | 0.92                        | 1.07   | 1.11    | 23.78             | 24.07  | 23.68   |
| 4300.00            | 0.37                   | 0.26   | 0.53    | 0.50                        | 0.55   | 0.44    | 1.06                        | 1.22   | 1.25    | 24.23             | 24.51  | 24.19   |
| 4400.00            | 0.38                   | 0.27   | 0.54    | 0.43                        | 0.49   | 0.38    | 1.18                        | 1.31   | 1.41    | 24.98             | 25.27  | 24.91   |
| 4500.00            | 0.39                   | 0.26   | 0.55    | 0.34                        | 0.41   | 0.27    | 1.35                        | 1.46   | 1.60    | 26.17             | 26.61  | 25.91   |
| 4600.00            | 0.40                   | 0.27   | 0.56    | 0.24                        | 0.31   | 0.17    | 1.51                        | 1.61   | 1.74    | 27.88             | 28.63  | 27.29   |
| 4700.00            | 0.40                   | 0.27   | 0.58    | 0.11                        | 0.19   | 0.02    | 1.67                        | 1.79   | 1.93    | 28.55             | 29.53  | 27.56   |
| 4800.00            | 0.41                   | 0.28   | 0.58    | 0.03                        | 0.07   | 0.13    | 1.81                        | 1.91   | 2.07    | 28.14             | 29.20  | 26.96   |
| 4900.00            | 0.42                   | 0.29   | 0.61    | 0.18                        | 0.08   | 0.30    | 1.95                        | 2.06   | 2.24    | 27.48             | 28.43  | 26.37   |
| 5000.00            | 0.45                   | 0.31   | 0.64    | 0.37                        | 0.25   | 0.51    | 2.06                        | 2.16   | 2.36    | 26.93             | 27.75  | 25.77   |
| 5500.00            | 0.63                   | 0.45   | 0.87    | 1.73                        | 1.54   | 1.97    | 2.91                        | 2.88   | 3.40    | 25.67             | 26.84  | 24.30   |
| 6000.00            | 1.11                   | 0.84   | 1.46    | 4.05                        | 3.69   | 4.48    | 4.57                        | 4.27   | 5.60    | 23.33             | 24.39  | 22.30   |
| 6500.00            | 2.48                   | 1.99   | 3.11    | 8.15                        | 7.45   | 9.05    | 7.89                        | 6.59   | 10.35   | 21.11             | 22.07  | 20.39   |
| 7000.00            | 8.41                   | 6.77   | 9.97    | 20.79                       | 17.97  | 23.30   | 34.29                       | 19.42  | 70.46   | 17.05             | 17.58  | 16.61   |
| 7500.00            | 3.62                   | 3.94   | 3.40    | 8.91                        | 10.36  | 7.42    | 22.52                       | 21.63  | 23.37   | 13.16             | 13.10  | 13.27   |
| 8000.00            | 2.83                   | 2.76   | 2.94    | 2.92                        | 3.53   | 2.30    | 33.09                       | 32.64  | 33.31   | 12.64             | 12.41  | 12.95   |