

# Directional Coupler

TCD-ED12467/1

## Typical Performance Data

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | COUPLING<br>(dB) | DIRECTIVITY<br>(dB) | RETURN LOSS |       |       |
|--------------------|---------------------------|------------------|---------------------|-------------|-------|-------|
|                    |                           |                  |                     | IN          | OUT   | CPL   |
| 0.3                | 1.84                      | 10.37            | 18.09               | 10.85       | 10.94 | 10.68 |
| 0.5                | 1.62                      | 10.26            | 19.79               | 13.39       | 14.46 | 13.21 |
| 0.7                | 1.54                      | 10.21            | 20.30               | 14.66       | 16.55 | 14.46 |
| 1.0                | 1.44                      | 10.15            | 20.69               | 15.76       | 18.52 | 15.57 |
| 3.0                | 1.16                      | 9.99             | 22.25               | 18.62       | 24.71 | 18.39 |
| 5.0                | 1.06                      | 9.94             | 22.66               | 19.73       | 28.50 | 19.46 |
| 7.0                | 1.03                      | 9.92             | 22.82               | 20.23       | 31.44 | 19.93 |
| 9.0                | 1.02                      | 9.90             | 22.88               | 20.47       | 33.95 | 20.17 |
| 10.0               | 1.01                      | 9.90             | 22.91               | 20.57       | 35.13 | 20.26 |
| 20.0               | 1.01                      | 9.91             | 22.91               | 20.72       | 46.21 | 20.41 |
| 30.0               | 1.02                      | 9.92             | 22.81               | 20.61       | 46.71 | 20.33 |
| 40.0               | 1.04                      | 9.92             | 22.70               | 20.47       | 41.71 | 20.25 |
| 50.0               | 1.05                      | 9.93             | 22.54               | 20.35       | 38.95 | 20.20 |
| 75.0               | 1.07                      | 9.94             | 22.28               | 20.17       | 35.21 | 20.18 |
| 100.0              | 1.08                      | 9.95             | 22.09               | 20.17       | 33.10 | 20.18 |
| 150.0              | 1.12                      | 9.96             | 21.50               | 20.06       | 29.56 | 20.10 |
| 200.0              | 1.12                      | 9.97             | 20.87               | 19.64       | 27.68 | 20.61 |
| 250.0              | 1.14                      | 9.96             | 20.05               | 19.68       | 25.68 | 20.63 |
| 300.0              | 1.15                      | 9.96             | 19.27               | 19.38       | 24.41 | 21.18 |
| 350.0              | 1.18                      | 9.95             | 18.57               | 18.99       | 23.33 | 21.51 |
| 400.0              | 1.19                      | 9.94             | 17.86               | 19.40       | 22.50 | 22.06 |
| 450.0              | 1.22                      | 9.93             | 17.28               | 18.40       | 21.69 | 22.58 |
| 500.0              | 1.24                      | 9.92             | 16.74               | 19.39       | 21.07 | 23.17 |
| 550.0              | 1.26                      | 9.90             | 16.20               | 18.52       | 20.65 | 23.83 |
| 600.0              | 1.30                      | 9.88             | 15.72               | 19.05       | 20.31 | 24.39 |
| 650.0              | 1.31                      | 9.86             | 15.28               | 19.74       | 20.28 | 25.18 |
| 700.0              | 1.35                      | 9.87             | 15.05               | 19.07       | 20.00 | 25.70 |
| 750.0              | 1.35                      | 9.86             | 14.88               | 21.58       | 20.04 | 26.03 |
| 800.0              | 1.39                      | 9.85             | 14.81               | 20.28       | 19.92 | 25.99 |
| 850.0              | 1.41                      | 9.83             | 14.78               | 23.23       | 20.13 | 25.77 |
| 900.0              | 1.45                      | 9.82             | 14.88               | 22.54       | 20.29 | 25.37 |
| 950.0              | 1.46                      | 9.80             | 15.03               | 25.00       | 20.68 | 24.72 |
| 1000.0             | 1.51                      | 9.83             | 15.23               | 26.00       | 21.07 | 24.19 |
| 1125.0             | 1.60                      | 9.79             | 16.08               | 28.61       | 22.52 | 22.60 |
| 1250.0             | 1.71                      | 9.74             | 16.57               | 29.27       | 24.80 | 21.33 |
| 1375.0             | 1.90                      | 9.72             | 15.96               | 25.43       | 28.21 | 20.62 |
| 1500.0             | 2.13                      | 9.72             | 14.49               | 22.03       | 31.86 | 20.32 |
| 1625.0             | 2.49                      | 9.73             | 12.99               | 19.94       | 31.89 | 20.32 |
| 1750.0             | 2.99                      | 9.85             | 12.26               | 17.87       | 28.77 | 20.45 |
| 1875.0             | 2.23                      | 10.14            | 11.46               | 15.70       | 25.46 | 20.45 |
| 2000.0             | 2.96                      | 10.71            | 11.95               | 21.36       | 23.74 | 19.35 |