

# Directional Coupler

# TCD-20-4-75X+

## Typical Performance Data

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | COUPLING<br>(dB) | DIRECTIVITY<br>(dB) | RETURN LOSS<br>(dB) |       |       |
|--------------------|---------------------------|------------------|---------------------|---------------------|-------|-------|
|                    |                           |                  |                     | IN                  | OUT   | CPL   |
| 40.0               | 0.58                      | 21.64            | 17.52               | 23.40               | 24.77 | 23.38 |
| 50.0               | 0.56                      | 21.59            | 18.38               | 24.17               | 25.76 | 24.05 |
| 60.0               | 0.54                      | 21.54            | 18.79               | 24.77               | 26.63 | 24.58 |
| 70.0               | 0.53                      | 21.48            | 19.52               | 25.24               | 27.40 | 25.01 |
| 80.0               | 0.53                      | 21.46            | 19.93               | 25.64               | 28.07 | 25.34 |
| 90.0               | 0.52                      | 21.43            | 20.42               | 25.97               | 28.65 | 25.65 |
| 100.0              | 0.52                      | 21.40            | 20.79               | 26.18               | 29.06 | 25.90 |
| 150.0              | 0.51                      | 21.32            | 22.55               | 26.56               | 29.03 | 26.72 |
| 200.0              | 0.51                      | 21.26            | 23.71               | 26.81               | 28.91 | 27.00 |
| 250.0              | 0.52                      | 21.12            | 25.82               | 26.55               | 28.00 | 27.29 |
| 300.0              | 0.52                      | 21.04            | 27.40               | 25.81               | 26.94 | 27.36 |
| 350.0              | 0.52                      | 20.97            | 26.66               | 25.32               | 25.96 | 27.34 |
| 400.0              | 0.52                      | 20.86            | 27.87               | 24.72               | 24.81 | 26.78 |
| 450.0              | 0.53                      | 20.75            | 28.12               | 24.48               | 23.76 | 26.35 |
| 500.0              | 0.55                      | 20.52            | 34.93               | 23.79               | 23.55 | 25.86 |
| 550.0              | 0.56                      | 20.28            | 30.53               | 24.26               | 22.98 | 25.86 |
| 600.0              | 0.55                      | 20.16            | 25.62               | 24.21               | 23.10 | 25.83 |
| 650.0              | 0.55                      | 20.11            | 25.14               | 24.15               | 23.07 | 25.34 |
| 700.0              | 0.55                      | 20.07            | 24.89               | 24.78               | 23.12 | 25.06 |
| 750.0              | 0.56                      | 19.92            | 25.50               | 24.45               | 23.35 | 24.52 |
| 800.0              | 0.58                      | 19.72            | 27.27               | 25.41               | 23.80 | 24.41 |
| 850.0              | 0.59                      | 19.53            | 23.06               | 26.52               | 24.05 | 24.00 |
| 900.0              | 0.62                      | 19.38            | 24.56               | 27.11               | 24.33 | 24.10 |
| 950.0              | 0.62                      | 19.26            | 22.23               | 28.45               | 25.42 | 23.44 |
| 1000.0             | 0.65                      | 19.12            | 23.38               | 29.12               | 26.11 | 23.57 |
| 1050.0             | 0.68                      | 18.96            | 21.95               | 30.51               | 26.75 | 22.99 |
| 1100.0             | 0.69                      | 18.81            | 21.82               | 31.20               | 26.49 | 23.19 |
| 1200.0             | 0.73                      | 18.51            | 20.42               | 32.12               | 27.62 | 23.06 |