

# Directional Coupler

## ZFDC-ED13365/1

### Typical Performance Data

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | COUPLING<br>(dB) | DIRECTIVITY<br>(dB) | RETURN LOSS<br>(dB) |       |       |
|--------------------|---------------------------|------------------|---------------------|---------------------|-------|-------|
|                    |                           |                  |                     | IN                  | OUT   | CPL   |
| 5.0                | 0.30                      | 20.13            | 19.17               | 18.00               | 17.92 | 18.27 |
| 7.5                | 0.34                      | 20.23            | 22.42               | 21.19               | 21.26 | 21.38 |
| 10.0               | 0.37                      | 20.27            | 24.35               | 22.91               | 23.12 | 23.09 |
| 15.0               | 0.38                      | 20.33            | 26.26               | 24.85               | 25.25 | 25.03 |
| 20.0               | 0.38                      | 20.37            | 27.01               | 26.17               | 26.70 | 26.28 |
| 30.0               | 0.37                      | 20.42            | 27.64               | 28.09               | 28.84 | 28.15 |
| 40.0               | 0.37                      | 20.46            | 27.82               | 29.48               | 30.42 | 29.64 |
| 50.0               | 0.38                      | 20.48            | 27.94               | 30.54               | 31.62 | 30.90 |
| 70.0               | 0.38                      | 20.53            | 28.07               | 32.21               | 33.50 | 33.02 |
| 100.0              | 0.38                      | 20.57            | 28.17               | 34.13               | 35.74 | 35.62 |
| 300.0              | 0.43                      | 20.74            | 28.90               | 42.00               | 42.67 | 33.39 |
| 500.0              | 0.48                      | 20.87            | 28.19               | 47.07               | 42.22 | 27.05 |
| 700.0              | 0.53                      | 20.94            | 24.81               | 36.00               | 35.94 | 23.03 |
| 900.0              | 0.59                      | 20.96            | 21.45               | 30.08               | 31.68 | 20.15 |
| 1000.0             | 0.64                      | 20.96            | 20.03               | 27.99               | 29.92 | 18.99 |
| 1200.0             | 0.72                      | 20.93            | 17.91               | 24.92               | 27.16 | 17.12 |
| 1400.0             | 0.82                      | 20.88            | 16.72               | 22.77               | 25.22 | 15.78 |
| 1600.0             | 0.95                      | 21.11            | 15.38               | 21.03               | 23.34 | 14.81 |
| 1800.0             | 1.03                      | 21.13            | 14.07               | 20.53               | 22.41 | 14.31 |
| 2000.0             | 1.13                      | 21.26            | 13.97               | 20.60               | 21.87 | 14.25 |
| 2150.0             | 1.19                      | 21.41            | 14.04               | 20.96               | 21.47 | 14.56 |
| 2300.0             | 1.24                      | 21.60            | 14.20               | 21.68               | 21.15 | 15.11 |
| 2350.0             | 1.26                      | 21.67            | 14.28               | 22.01               | 21.01 | 15.37 |
| 2400.0             | 1.27                      | 21.74            | 14.39               | 22.35               | 20.91 | 15.68 |
| 2450.0             | 1.29                      | 21.82            | 14.52               | 22.77               | 20.82 | 16.02 |
| 2500.0             | 1.31                      | 21.90            | 14.63               | 23.06               | 20.67 | 16.44 |
| 2550.0             | 1.33                      | 21.98            | 14.69               | 23.37               | 20.40 | 16.89 |
| 2600.0             | 1.34                      | 22.05            | 14.72               | 23.70               | 20.21 | 17.43 |
| 2650.0             | 1.35                      | 22.12            | 14.89               | 24.05               | 19.92 | 17.97 |
| 2700.0             | 1.36                      | 22.20            | 15.02               | 24.27               | 19.86 | 18.67 |
| 2800.0             | 1.39                      | 22.36            | 15.30               | 24.40               | 19.40 | 20.23 |
| 2900.0             | 1.43                      | 22.53            | 15.56               | 24.00               | 18.90 | 22.22 |
| 3000.0             | 1.47                      | 22.70            | 15.78               | 23.09               | 18.38 | 24.33 |