

# Directional Coupler

## ZADC-ED12621/1

### Typical Performance Data

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | COUPLING<br>(dB) | DIRECTIVITY<br>(dB) | RETURN LOSS |       |       |
|--------------------|---------------------------|------------------|---------------------|-------------|-------|-------|
|                    |                           |                  |                     | IN          | OUT   | CPL   |
| 6.0                | 0.02                      | 61.81            | 32.64               | 77.38       | 70.12 | 57.79 |
| 10.0               | 0.05                      | 57.42            | 34.82               | 59.14       | 57.52 | 46.59 |
| 12.0               | 0.03                      | 55.85            | 34.26               | 57.68       | 58.00 | 47.59 |
| 14.0               | 0.01                      | 54.49            | 34.20               | 61.17       | 60.56 | 48.27 |
| 20.0               | 0.01                      | 51.40            | 34.25               | 58.14       | 61.24 | 49.18 |
| 50.0               | 0.04                      | 43.47            | 33.30               | 47.12       | 48.80 | 46.61 |
| 100.0              | 0.07                      | 37.51            | 32.77               | 39.27       | 40.42 | 43.26 |
| 150.0              | 0.10                      | 34.06            | 32.06               | 35.54       | 35.97 | 41.62 |
| 250.0              | 0.17                      | 29.77            | 31.08               | 29.95       | 30.10 | 38.71 |
| 450.0              | 0.33                      | 25.09            | 29.55               | 24.74       | 24.34 | 38.82 |
| 650.0              | 0.49                      | 22.52            | 27.31               | 22.92       | 21.81 | 44.85 |
| 700.0              | 0.52                      | 22.07            | 26.68               | 22.86       | 21.49 | 47.81 |
| 750.0              | 0.56                      | 21.67            | 26.02               | 22.91       | 21.39 | 46.50 |
| 800.0              | 0.59                      | 21.32            | 25.44               | 23.23       | 21.47 | 44.11 |
| 850.0              | 0.63                      | 21.02            | 24.65               | 23.57       | 21.59 | 42.12 |
| 925.0              | 0.67                      | 20.64            | 23.55               | 24.51       | 22.19 | 39.16 |
| 950.0              | 0.68                      | 20.53            | 23.21               | 24.98       | 22.52 | 38.12 |
| 975.0              | 0.69                      | 20.43            | 22.83               | 25.44       | 22.94 | 37.07 |
| 1000.0             | 0.70                      | 20.34            | 22.41               | 25.81       | 23.22 | 36.36 |
| 1025.0             | 0.71                      | 20.26            | 22.03               | 26.34       | 23.63 | 35.48 |
| 1050.0             | 0.72                      | 20.19            | 21.69               | 27.08       | 24.26 | 34.54 |
| 1100.0             | 0.74                      | 20.07            | 21.00               | 27.91       | 25.45 | 33.19 |
| 1150.0             | 0.75                      | 19.97            | 20.24               | 28.13       | 27.01 | 31.86 |
| 1200.0             | 0.77                      | 19.91            | 19.55               | 28.08       | 29.13 | 30.57 |
| 1250.0             | 0.78                      | 19.87            | 18.78               | 26.75       | 31.51 | 29.32 |
| 1300.0             | 0.79                      | 19.86            | 18.11               | 25.54       | 34.35 | 28.04 |
| 1350.0             | 0.80                      | 19.88            | 17.38               | 23.99       | 34.57 | 27.08 |
| 1400.0             | 0.81                      | 19.92            | 16.65               | 22.92       | 33.12 | 26.05 |
| 1425.0             | 0.81                      | 19.96            | 16.26               | 22.28       | 31.90 | 25.65 |
| 1450.0             | 0.81                      | 19.99            | 15.91               | 21.76       | 30.89 | 25.11 |
| 1475.0             | 0.81                      | 20.04            | 15.58               | 21.33       | 29.97 | 24.54 |
| 1500.0             | 0.81                      | 20.09            | 15.19               | 20.85       | 29.12 | 24.08 |
| 1550.0             | 0.81                      | 20.21            | 14.46               | 20.17       | 27.55 | 23.04 |
| 1600.0             | 0.81                      | 20.36            | 13.68               | 19.53       | 26.37 | 22.15 |
| 1650.0             | 0.80                      | 20.54            | 12.95               | 19.15       | 25.71 | 21.20 |
| 1700.0             | 0.79                      | 20.74            | 12.18               | 18.81       | 25.22 | 20.37 |
| 1800.0             | 0.77                      | 21.23            | 10.58               | 18.73       | 25.20 | 18.90 |
| 1900.0             | 0.73                      | 21.86            | 8.95                | 19.14       | 26.15 | 17.65 |
| 2000.0             | 0.68                      | 22.65            | 7.22                | 20.31       | 28.71 | 16.56 |
| 2100.0             | 0.63                      | 23.64            | 5.39                | 22.69       | 35.00 | 15.71 |
| 2200.0             | 0.59                      | 24.92            | 3.38                | 27.42       | 38.59 | 14.96 |