

# Directional Coupler

ZX30-20-4

## Typical Performance Data

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | COUPLING<br>(dB) | DIRECTIVITY<br>(dB) | RETURN LOSS |       |       |
|--------------------|---------------------------|------------------|---------------------|-------------|-------|-------|
|                    |                           |                  |                     | IN          | OUT   | CPL   |
| 20.0               | 0.29                      | 20.09            | 21.35               | 29.65       | 33.25 | 27.81 |
| 40.0               | 0.30                      | 20.09            | 21.56               | 29.84       | 33.48 | 27.92 |
| 60.0               | 0.31                      | 20.11            | 21.74               | 29.89       | 33.53 | 27.82 |
| 80.0               | 0.31                      | 20.12            | 21.97               | 29.91       | 33.45 | 27.58 |
| 100.0              | 0.29                      | 20.12            | 22.22               | 29.95       | 33.34 | 27.20 |
| 120.0              | 0.30                      | 20.12            | 22.49               | 29.96       | 33.21 | 26.78 |
| 140.0              | 0.31                      | 20.15            | 22.80               | 29.97       | 33.09 | 26.35 |
| 160.0              | 0.32                      | 20.14            | 23.25               | 30.02       | 33.03 | 25.91 |
| 180.0              | 0.32                      | 20.16            | 23.67               | 30.03       | 32.96 | 25.43 |
| 200.0              | 0.32                      | 20.16            | 24.14               | 30.09       | 32.92 | 24.95 |
| 220.0              | 0.32                      | 20.16            | 24.79               | 30.11       | 32.76 | 24.48 |
| 240.0              | 0.33                      | 20.16            | 25.38               | 30.09       | 32.50 | 24.01 |
| 260.0              | 0.33                      | 20.17            | 26.11               | 30.01       | 32.22 | 23.53 |
| 280.0              | 0.34                      | 20.17            | 26.84               | 29.95       | 32.05 | 23.00 |
| 300.0              | 0.33                      | 20.18            | 27.56               | 29.92       | 32.05 | 22.45 |
| 320.0              | 0.34                      | 20.20            | 28.38               | 29.93       | 31.94 | 21.96 |
| 340.0              | 0.34                      | 20.18            | 29.14               | 29.95       | 31.83 | 21.53 |
| 360.0              | 0.34                      | 20.19            | 29.86               | 30.00       | 31.65 | 21.14 |
| 380.0              | 0.34                      | 20.19            | 30.09               | 30.02       | 31.44 | 20.77 |
| 400.0              | 0.36                      | 20.22            | 30.18               | 30.05       | 31.26 | 20.37 |
| 425.0              | 0.35                      | 20.20            | 29.66               | 30.08       | 31.06 | 19.88 |
| 450.0              | 0.36                      | 20.20            | 28.63               | 30.13       | 30.82 | 19.44 |
| 475.0              | 0.38                      | 20.24            | 27.35               | 30.21       | 30.60 | 19.03 |
| 500.0              | 0.38                      | 20.23            | 26.00               | 30.27       | 30.59 | 18.54 |
| 525.0              | 0.39                      | 20.26            | 24.80               | 30.31       | 30.56 | 18.11 |
| 550.0              | 0.40                      | 20.25            | 23.71               | 30.40       | 30.36 | 17.70 |
| 575.0              | 0.41                      | 20.29            | 22.50               | 30.59       | 30.09 | 17.36 |
| 600.0              | 0.43                      | 20.31            | 21.45               | 30.83       | 30.09 | 17.03 |
| 625.0              | 0.43                      | 20.28            | 20.60               | 31.06       | 30.23 | 16.65 |
| 650.0              | 0.43                      | 20.35            | 19.64               | 31.17       | 30.15 | 16.27 |
| 700.0              | 0.46                      | 20.33            | 18.17               | 31.65       | 29.79 | 15.68 |
| 750.0              | 0.46                      | 20.46            | 16.86               | 32.61       | 29.81 | 15.04 |
| 775.0              | 0.47                      | 20.47            | 16.21               | 33.03       | 29.50 | 14.75 |
| 800.0              | 0.49                      | 20.43            | 15.69               | 33.35       | 29.30 | 14.51 |
| 825.0              | 0.50                      | 20.53            | 15.11               | 33.84       | 29.41 | 14.24 |
| 850.0              | 0.49                      | 20.61            | 14.64               | 34.60       | 29.32 | 13.95 |
| 875.0              | 0.51                      | 20.63            | 14.14               | 35.69       | 28.84 | 13.69 |
| 900.0              | 0.52                      | 20.61            | 13.71               | 36.57       | 28.44 | 13.47 |
| 950.0              | 0.53                      | 20.75            | 12.89               | 37.91       | 28.42 | 13.03 |
| 1000.0             | 0.56                      | 20.85            | 12.18               | 41.42       | 27.44 | 12.56 |

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