

Bi-Directional Coupler

ZABDC20-252H-N+

Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | | COUPLING (dB) | | DIRECTIVITY (dB) | | RETURN LOSS (dB) | | | |
|--------------------|------------------------|---------|------------------|---------|---------------------|---------|---------------------|-------|-------|-------|
| | IN-OUT | FWD-REV | IN-FWD | OUT-REV | IN-REV | OUT-FWD | IN | OUT | FWD | REV |
| 500 | 0.13 | 0.11 | 27.57 | 27.59 | 35.01 | 31.95 | 37.03 | 33.63 | 51.89 | 42.25 |
| 600 | 0.12 | 0.12 | 26.09 | 26.09 | 37.11 | 33.64 | 37.65 | 34.20 | 48.47 | 41.77 |
| 700 | 0.11 | 0.13 | 24.88 | 24.87 | 37.59 | 33.60 | 38.66 | 35.17 | 48.63 | 42.23 |
| 800 | 0.11 | 0.14 | 23.88 | 23.85 | 36.66 | 32.78 | 39.78 | 35.40 | 47.06 | 42.20 |
| 825 | 0.11 | 0.15 | 23.67 | 23.63 | 35.30 | 32.40 | 40.00 | 35.66 | 46.02 | 41.34 |
| 850 | 0.11 | 0.15 | 23.45 | 23.41 | 34.60 | 31.88 | 40.06 | 35.47 | 43.98 | 40.47 |
| 875 | 0.11 | 0.15 | 23.23 | 23.20 | 34.23 | 31.68 | 40.30 | 35.28 | 42.61 | 40.10 |
| 900 | 0.11 | 0.15 | 23.03 | 22.99 | 33.68 | 31.23 | 40.31 | 35.34 | 42.11 | 40.11 |
| 925 | 0.11 | 0.16 | 22.85 | 22.81 | 33.05 | 30.87 | 40.17 | 35.62 | 41.92 | 39.84 |
| 950 | 0.11 | 0.16 | 22.67 | 22.63 | 32.46 | 30.53 | 39.98 | 35.75 | 40.95 | 39.20 |
| 975 | 0.12 | 0.17 | 22.49 | 22.45 | 32.43 | 30.20 | 39.63 | 35.81 | 39.75 | 38.28 |
| 1000 | 0.12 | 0.17 | 22.32 | 22.28 | 32.23 | 30.17 | 39.27 | 35.77 | 38.27 | 37.38 |
| 1200 | 0.13 | 0.18 | 21.22 | 21.15 | 32.87 | 31.42 | 35.59 | 36.09 | 34.59 | 34.96 |
| 1400 | 0.15 | 0.21 | 20.43 | 20.38 | 36.13 | 35.46 | 32.74 | 34.79 | 33.78 | 35.02 |
| 1600 | 0.17 | 0.22 | 19.92 | 19.86 | 35.55 | 42.35 | 30.21 | 33.34 | 31.94 | 33.00 |
| 1800 | 0.19 | 0.23 | 19.63 | 19.58 | 29.28 | 32.79 | 29.43 | 33.84 | 33.22 | 32.26 |
| 1900 | 0.20 | 0.24 | 19.58 | 19.54 | 27.91 | 30.13 | 30.35 | 34.34 | 35.41 | 34.12 |
| 2000 | 0.20 | 0.25 | 19.58 | 19.54 | 26.99 | 28.91 | 30.64 | 33.90 | 36.72 | 35.98 |
| 2100 | 0.21 | 0.25 | 19.65 | 19.61 | 26.48 | 28.36 | 30.48 | 34.27 | 38.92 | 36.56 |
| 2200 | 0.21 | 0.25 | 19.77 | 19.73 | 26.09 | 28.11 | 31.14 | 35.70 | 41.69 | 36.37 |
| 2300 | 0.22 | 0.24 | 19.96 | 19.91 | 25.73 | 27.46 | 32.97 | 36.69 | 43.05 | 35.56 |
| 2400 | 0.21 | 0.24 | 20.21 | 20.16 | 25.13 | 27.14 | 35.33 | 36.16 | 49.29 | 35.25 |
| 2500 | 0.21 | 0.25 | 20.53 | 20.48 | 24.97 | 27.45 | 37.60 | 37.56 | 38.44 | 34.58 |
| 2800 | 0.22 | 0.26 | 21.96 | 21.93 | 22.19 | 23.49 | 53.85 | 35.33 | 33.72 | 30.68 |
| 3000 | 0.20 | 0.24 | 23.38 | 23.35 | 19.12 | 19.98 | 39.81 | 33.98 | 28.75 | 28.00 |