

Directional Coupler

ZCDC13-5R263-S+

Typical Performance Data

| FREQ. (MHz) | INSERTION LOSS ⁽¹⁾ (dB) | COUPLING (dB) | DIRECTIVITY (dB) | RETURN LOSS | | |
|----------------|--|------------------|---------------------|-------------|-------|-------|
| | | | | (dB) | | |
| | | | | IN | OUT | CPL |
| 200 | 0.23 | 20.07 | 38.21 | 32.28 | 35.48 | 34.74 |
| 250 | 0.19 | 18.61 | 37.42 | 33.70 | 35.59 | 33.80 |
| 300 | 0.28 | 17.06 | 39.81 | 31.91 | 35.36 | 32.95 |
| 350 | 0.31 | 16.22 | 40.18 | 31.67 | 35.49 | 32.52 |
| 400 | 0.33 | 15.21 | 39.76 | 32.63 | 34.97 | 31.99 |
| 450 | 0.38 | 14.71 | 41.17 | 31.80 | 35.12 | 31.88 |
| 500 | 0.35 | 14.06 | 37.92 | 33.14 | 33.68 | 31.70 |
| 550 | 0.41 | 13.81 | 40.19 | 32.76 | 35.32 | 31.85 |
| 600 | 0.43 | 13.49 | 38.83 | 31.94 | 34.11 | 31.96 |
| 650 | 0.42 | 13.33 | 38.03 | 34.36 | 36.05 | 32.11 |
| 700 | 0.47 | 13.27 | 39.27 | 33.29 | 35.70 | 32.65 |
| 750 | 0.43 | 13.22 | 37.26 | 33.26 | 36.53 | 32.88 |
| 800 | 0.47 | 13.30 | 38.86 | 35.41 | 39.07 | 33.67 |
| 850 | 0.47 | 13.37 | 38.25 | 34.64 | 40.27 | 34.10 |
| 900 | 0.45 | 13.49 | 38.15 | 37.90 | 47.93 | 34.66 |
| 950 | 0.47 | 13.62 | 39.31 | 37.34 | 48.57 | 35.06 |
| 1000 | 0.43 | 13.72 | 37.97 | 36.36 | 42.67 | 34.61 |
| 1500 | 0.52 | 13.13 | 32.47 | 32.85 | 31.30 | 30.26 |
| 2000 | 0.53 | 13.61 | 31.25 | 38.64 | 45.39 | 34.12 |
| 2500 | 0.58 | 13.18 | 29.67 | 34.84 | 38.08 | 32.98 |
| 3000 | 0.59 | 13.40 | 30.83 | 32.22 | 34.61 | 30.13 |
| 3500 | 0.61 | 13.10 | 25.74 | 34.64 | 43.14 | 51.13 |
| 4000 | 0.63 | 13.10 | 29.21 | 31.13 | 32.99 | 29.41 |
| 4500 | 0.64 | 13.26 | 23.58 | 29.94 | 31.96 | 28.54 |
| 5000 | 0.66 | 13.09 | 31.22 | 37.66 | 34.73 | 31.20 |
| 5500 | 0.67 | 13.33 | 23.04 | 26.86 | 26.99 | 24.96 |
| 6000 | 0.72 | 12.76 | 32.26 | 36.98 | 36.34 | 33.05 |
| 6500 | 0.70 | 13.37 | 23.55 | 28.22 | 28.46 | 25.68 |
| 7000 | 0.76 | 12.81 | 31.64 | 28.70 | 27.41 | 26.97 |
| 7500 | 0.73 | 13.54 | 26.18 | 41.31 | 41.38 | 33.16 |
| 8000 | 0.81 | 12.67 | 30.18 | 25.26 | 24.19 | 25.69 |
| 8500 | 0.77 | 13.44 | 29.24 | 30.29 | 30.03 | 27.45 |
| 9000 | 0.84 | 12.75 | 27.15 | 25.85 | 25.16 | 26.54 |
| 9500 | 0.82 | 13.48 | 25.42 | 23.84 | 24.22 | 24.85 |
| 10000 | 0.87 | 12.71 | 24.82 | 27.55 | 28.19 | 23.89 |
| 10500 | 0.87 | 13.29 | 23.22 | 23.35 | 24.05 | 29.59 |
| 11000 | 0.89 | 12.98 | 21.58 | 26.88 | 26.80 | 22.48 |
| 11500 | 0.87 | 13.46 | 23.79 | 29.54 | 31.46 | 34.01 |
| 12000 | 0.91 | 13.17 | 22.02 | 27.38 | 26.48 | 25.52 |
| 12500 | 0.92 | 13.21 | 26.51 | 31.00 | 30.66 | 31.73 |
| 13000 | 0.93 | 13.28 | 25.66 | 31.44 | 29.43 | 31.33 |
| 13500 | 0.97 | 13.08 | 27.63 | 26.78 | 25.65 | 43.65 |
| 14000 | 0.98 | 13.37 | 29.74 | 23.37 | 23.14 | 26.65 |
| 14500 | 1.01 | 12.95 | 29.09 | 27.44 | 27.35 | 24.38 |
| 15000 | 1.04 | 13.47 | 23.59 | 19.73 | 20.27 | 23.97 |
| 15500 | 1.05 | 12.91 | 24.80 | 29.07 | 36.54 | 21.36 |
| 16000 | 1.08 | 13.49 | 18.06 | 19.29 | 20.47 | 20.16 |
| 16500 | 1.14 | 12.70 | 22.24 | 19.53 | 20.02 | 22.37 |
| 17000 | 1.11 | 13.48 | 16.30 | 20.54 | 22.63 | 18.21 |
| 17500 | 1.20 | 12.64 | 20.51 | 17.56 | 17.79 | 24.56 |
| 18000 | 1.12 | 13.13 | 16.21 | 26.08 | 36.10 | 19.74 |
| 18500 | 1.22 | 12.60 | 19.97 | 19.00 | 18.96 | 21.33 |
| 19000 | 1.16 | 13.16 | 18.32 | 26.34 | 26.28 | 30.76 |
| 19500 | 1.23 | 12.59 | 20.15 | 25.26 | 23.84 | 21.20 |
| 20000 | 1.23 | 12.54 | 22.82 | 24.51 | 23.62 | 24.87 |
| 20500 | 1.24 | 12.78 | 19.93 | 26.76 | 23.11 | 30.97 |
| 21000 | 1.23 | 13.32 | 30.86 | 24.49 | 25.27 | 19.07 |
| 21500 | 1.25 | 13.50 | 19.06 | 20.85 | 20.70 | 19.74 |
| 22000 | 1.27 | 13.11 | 24.16 | 24.33 | 30.07 | 20.47 |
| 22500 | 1.28 | 13.63 | 17.09 | 20.39 | 21.25 | 15.46 |
| 23000 | 1.30 | 13.24 | 20.66 | 21.51 | 24.06 | 27.67 |
| 23500 | 1.28 | 13.80 | 17.03 | 23.50 | 26.64 | 15.62 |
| 24000 | 1.38 | 12.98 | 17.93 | 19.00 | 20.19 | 25.22 |
| 24500 | 1.33 | 13.45 | 17.31 | 23.68 | 27.74 | 18.31 |
| 25000 | 1.41 | 12.75 | 17.58 | 20.25 | 21.62 | 21.56 |
| 25500 | 1.37 | 13.25 | 19.60 | 23.09 | 26.09 | 23.29 |
| 26000 | 1.43 | 12.67 | 17.97 | 22.09 | 23.85 | 21.99 |
| 26500 | 1.41 | 13.21 | 17.53 | 22.71 | 25.84 | 21.84 |
| 27000 | 1.49 | 12.50 | 19.09 | 20.40 | 22.02 | 23.34 |
| 28000 | 1.50 | 12.85 | 19.25 | 20.14 | 21.78 | 27.12 |
| 29000 | 1.51 | 13.54 | 20.21 | 19.42 | 20.06 | 25.93 |
| 30000 | 1.54 | 14.10 | 23.81 | 18.61 | 18.48 | 18.06 |

⁽¹⁾ Mainline loss includes coupling loss

