

Bi-Directional Coupler

SYBDC-15-13HP+

Typical Performance Data

| FREQ. (MHz) | INSERTION LOSS | | COUPLING | | DIRECTIVITY | | RETURN LOSS | | | |
|----------------|----------------|---------|----------|---------|-------------|---------|-------------|-------|-------|-------|
| | (dB) | | (dB) | | (dB) | | (dB) | | | |
| | IN-OUT | FWD-REV | IN-FWD | OUT-REV | IN-REV | OUT-FWD | IN | OUT | FWD | REV |
| 30 | 0.70 | 0.71 | 14.40 | 15.85 | 10.80 | 12.27 | 10.37 | 9.92 | 10.33 | 9.92 |
| 40 | 0.49 | 0.50 | 14.54 | 15.41 | 13.55 | 14.43 | 12.90 | 12.44 | 12.85 | 12.43 |
| 60 | 0.39 | 0.40 | 14.63 | 15.07 | 18.05 | 18.48 | 17.29 | 16.94 | 17.19 | 16.91 |
| 80 | 0.55 | 0.55 | 14.67 | 15.27 | 20.50 | 21.06 | 20.01 | 20.51 | 19.91 | 20.52 |
| 95 | 0.63 | 0.62 | 14.73 | 15.42 | 20.72 | 21.53 | 20.40 | 21.55 | 20.45 | 21.64 |
| 100 | 0.64 | 0.63 | 14.75 | 15.45 | 20.70 | 21.60 | 20.44 | 21.80 | 20.56 | 21.89 |
| 105 | 0.65 | 0.64 | 14.77 | 15.48 | 20.73 | 21.69 | 20.49 | 22.02 | 20.68 | 22.13 |
| 120 | 0.67 | 0.66 | 14.82 | 15.54 | 21.40 | 22.10 | 21.01 | 22.69 | 21.09 | 22.67 |
| 140 | 0.67 | 0.66 | 14.88 | 15.59 | 21.81 | 22.54 | 21.68 | 23.39 | 21.72 | 23.54 |
| 150 | 0.67 | 0.66 | 14.91 | 15.61 | 21.82 | 22.76 | 21.91 | 23.64 | 22.02 | 23.97 |
| 160 | 0.67 | 0.66 | 14.94 | 15.62 | 21.99 | 22.97 | 22.10 | 23.91 | 22.25 | 24.32 |
| 170 | 0.66 | 0.66 | 14.96 | 15.63 | 22.26 | 23.18 | 22.33 | 24.22 | 22.51 | 24.69 |
| 200 | 0.65 | 0.65 | 15.02 | 15.66 | 22.93 | 23.67 | 22.95 | 25.16 | 23.15 | 25.66 |
| 230 | 0.64 | 0.64 | 15.07 | 15.69 | 23.28 | 24.02 | 23.47 | 25.90 | 23.78 | 26.61 |
| 260 | 0.64 | 0.63 | 15.12 | 15.72 | 23.43 | 24.41 | 23.93 | 26.64 | 24.35 | 27.56 |
| 290 | 0.63 | 0.62 | 15.16 | 15.74 | 23.63 | 24.79 | 24.51 | 27.46 | 25.12 | 28.71 |
| 320 | 0.63 | 0.63 | 15.21 | 15.78 | 23.79 | 25.08 | 24.97 | 28.07 | 25.78 | 29.69 |
| 350 | 0.63 | 0.62 | 15.25 | 15.81 | 23.98 | 25.21 | 25.49 | 28.75 | 26.53 | 30.88 |
| 380 | 0.63 | 0.63 | 15.29 | 15.85 | 24.13 | 25.31 | 26.05 | 29.32 | 27.21 | 31.67 |
| 410 | 0.63 | 0.62 | 15.33 | 15.89 | 24.05 | 25.27 | 26.47 | 29.87 | 27.95 | 32.75 |
| 440 | 0.63 | 0.63 | 15.37 | 15.94 | 24.19 | 25.47 | 27.04 | 30.67 | 28.89 | 33.99 |
| 460 | 0.63 | 0.63 | 15.40 | 15.97 | 24.21 | 25.51 | 27.36 | 30.99 | 29.43 | 34.59 |
| 470 | 0.63 | 0.63 | 15.41 | 15.99 | 24.23 | 25.54 | 27.58 | 31.29 | 29.79 | 35.05 |
| 480 | 0.63 | 0.64 | 15.42 | 16.00 | 24.27 | 25.59 | 27.82 | 31.57 | 30.21 | 35.46 |
| 500 | 0.64 | 0.64 | 15.45 | 16.03 | 24.28 | 25.59 | 28.29 | 32.18 | 30.96 | 36.11 |
| 540 | 0.64 | 0.65 | 15.50 | 16.10 | 24.46 | 25.65 | 29.41 | 33.29 | 32.72 | 37.25 |
| 580 | 0.65 | 0.66 | 15.55 | 16.17 | 24.44 | 25.65 | 30.34 | 34.42 | 34.67 | 38.44 |
| 620 | 0.66 | 0.67 | 15.61 | 16.23 | 24.38 | 25.58 | 31.48 | 35.53 | 37.31 | 38.63 |
| 660 | 0.67 | 0.68 | 15.66 | 16.30 | 24.34 | 25.64 | 32.85 | 36.89 | 40.65 | 38.50 |
| 700 | 0.68 | 0.70 | 15.71 | 16.37 | 24.19 | 25.65 | 34.10 | 38.30 | 44.17 | 37.59 |
| 740 | 0.70 | 0.71 | 15.76 | 16.44 | 24.26 | 25.60 | 35.71 | 39.29 | 43.51 | 36.07 |
| 780 | 0.71 | 0.73 | 15.82 | 16.50 | 24.08 | 25.48 | 35.98 | 39.47 | 39.41 | 35.00 |
| 820 | 0.73 | 0.74 | 15.88 | 16.57 | 23.89 | 25.33 | 35.64 | 39.15 | 36.35 | 34.10 |
| 860 | 0.74 | 0.77 | 15.94 | 16.64 | 23.62 | 25.09 | 34.61 | 38.50 | 33.59 | 33.25 |
| 900 | 0.76 | 0.78 | 15.99 | 16.71 | 23.48 | 25.04 | 33.51 | 37.45 | 31.96 | 32.36 |
| 950 | 0.78 | 0.81 | 16.05 | 16.80 | 23.56 | 24.97 | 31.58 | 36.39 | 29.93 | 31.37 |
| 1000 | 0.80 | 0.83 | 16.13 | 16.87 | 23.11 | 24.80 | 30.00 | 35.32 | 28.45 | 30.78 |
| 1050 | 0.83 | 0.86 | 16.21 | 16.95 | 22.65 | 24.37 | 28.53 | 34.20 | 27.18 | 30.15 |
| 1200 | 0.90 | 0.95 | 16.44 | 17.17 | 21.70 | 23.75 | 25.20 | 32.48 | 24.32 | 28.86 |