



MICROLAB/FXR Directional Couplers

CB series

Air Dielectric, High Power
200 to 4000 MHz

- ◆ High Isolation
- ◆ Low VSWR
- ◆ Octave bands to 4 GHz
- ◆ 100W average Power Rating
- ◆ N Connectors



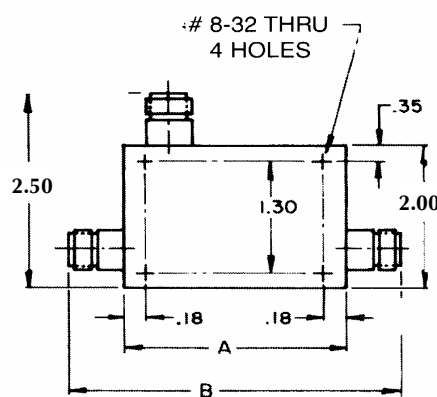
Pictured with optional paint finish.

The Microlab/FXR CB series 6, 10, 20, and 30 dB directional couplers are low priced, ruggedly constructed components using air dielectric, ideally suited for system use. Their flat coupling, high directivity, and low VSWR over a full octave also make the CB coupler an excellent lab device. Catalog units cover octave bands from 200 to 4,000 MHz, and wireless bands from 380 MHz to 2700 MHz.

Microlab/FXR also offers units with custom octave bandwidths, alternate connectors or higher powers to special order. CB series couplers are provided with threaded holes for reliable mounting. Mounting hole sizes and layout are available on request. (8/05)

Frequency Range: 200 to 4,000 GHz
 Standard Coupling: 6, 10, 20 and 30 dB
 Coupling Accuracy: ± 1.0 dB
 Main Line Insertion Loss*: 0.2 dB max.
 VSWR: 1.25:1 max.
 Impedance: 50 Ω nominal
 Temperature Range: -55°C to +125°C
 Connectors: N female in silver plate per QQ-S-365
 Housing: Passivated aluminum
 Paint finish optional

*Above Coupling Loss



Frequency Range MHz	Direct- ivity Min.	Model Numbers				Outline Dimensions inches (mm)				Weight oz. (g)
		6 dB	10 dB	20 dB	30 dB	6, 10 dB		20, 30 dB		
						A	B	A	B	
200 – 400	20 dB	-	CB-17N	CB-18N	CB-19N	9.11 (231)	10.11 (257)	9.20 (234)	10.20 (259)	22.0 (624)
400 – 800	25 dB	CB-26N	CB-27N	CB-28N	CB-29N	6.94 (176)	7.94 (202)	7.05 (179)	8.05 (204)	14.0 (397)
750 – 1500		CB-36N	CB-37N	CB-38N	CB-39N	4.60 (117)	5.60 (142)	4.75 (121)	5.75 (146)	10.2 (289)
1000 – 2000		CB-46N	CB-47N	CB-48N	CB-49N	3.95 (100)	4.95 (126)	4.10 (104)	5.10 (130)	9.1 (258)
1500 – 3000	23 dB	CB-56N	CB-57N	CB-58N	CB-59N	3.29 (84)	4.29 (109)	3.43 (87)	4.43 (113)	8.0 (227)
2000 - 4000		CB-66N	CB-67N	CB-68N	CB-69N	2.97 (75)	3.97 (101)	3.12 (79)	4.12 (105)	7.3 (207)