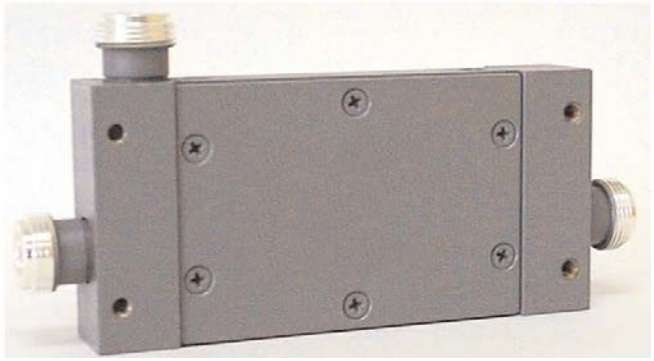
Directional Couplers, BC series

Air Dielectric, High Power
200 to 4000 MHz

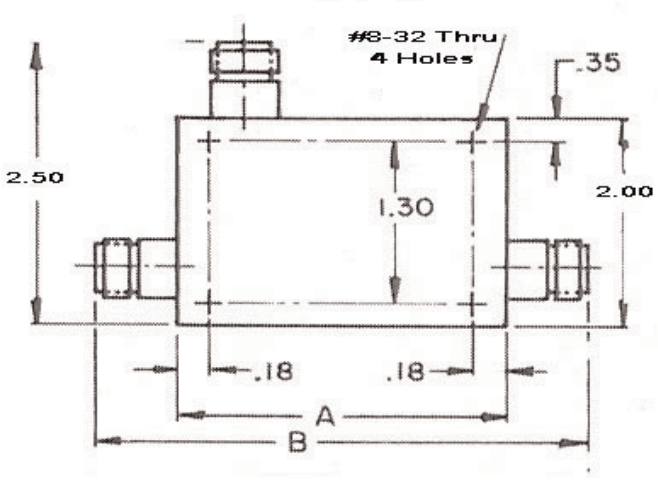


Pictured with optional paint finish.

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

The dBD Communications BC 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.
dBD also offers units with custom octave bandwidths, alternate connectors or higher powers to special order. BC series couplers are provided with threaded holes for reliable mounting. (8/08)

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



Frequency Range MHz	Directivity dB min.	Dissipative Loss dB max.	Model Number				Dimensions inches (mm)				Weight ox. (g)
							6 & 10 dB		20 & 30 dB		
			6 dB	10 dB	20 dB	40 dB	A	B	A	B	
200 - 400	20	0.2	-	CPL-BC-71N	CPL-BC-81N	CPL-BC-91N	9.11 (231)	10.11 (257)	9.20 (234)	10.20 (259)	22.0 (624)
400 - 800	25	0.2	CPL-BC-62N	CPL-BC-72N	CPL-BC-82N	CPL-BC-92N	6.94 (176)	7.94 (202)	7.05 (179)	8.05 (204)	14.0 (397)
750 - 1500	25	0.2	CPL-BC-63N	CPL-BC-73N	CPL-BC-83N	CPL-BC-93N	4.60 (117)	5.60 (142)	4.75 (121)	5.75 (146)	10.2 (289)
1000-2000	25	0.2	CPL-BC-64N	CPL-BC-74N	CPL-BC-84N	CPL-BC-94N	3.95 (100)	4.95 (126)	4.10 (104)	5.10 (130)	9.1 (258)
1500-3000	23	0.2	CPL-BC-65N	CPL-BC-75N	CPL-BC-85N	CPL-BC-95N	3.29 (84)	4.29 (109)	3.43 (87)	4.43 (113)	8.0 (227)
2000-4000	23	0.2	CPL-BC-66N	CPL-BC-76N	CPL-BC-86N	CPL-BC-96N	2.97 (75)	3.97 (101)	3.12 (79)	4.12 (105)	7.3 (207)

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