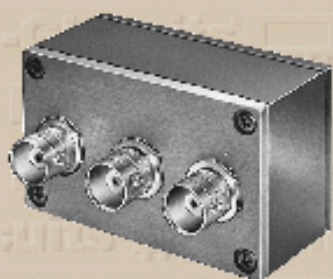


# Directional Coupler



## ZDC-15-2

Frequency MHz	Coupling dB		Mainline Loss dB						Directivity dB			VSWR (:1)	Power INPUT, W		
	$f_L - f_U$	Nom.	Flatness	L Typ.	L Max.	M Typ.	M Max.	U Typ.	U Max.	L Typ.	M Typ.	U Typ.	Typ.	L Max.	MU Max.
0.50-250	15.0±0.50	±0.5	0.80	1.20	0.70	1.00	0.90	1.20	32	28	32	28	32	28	3.0

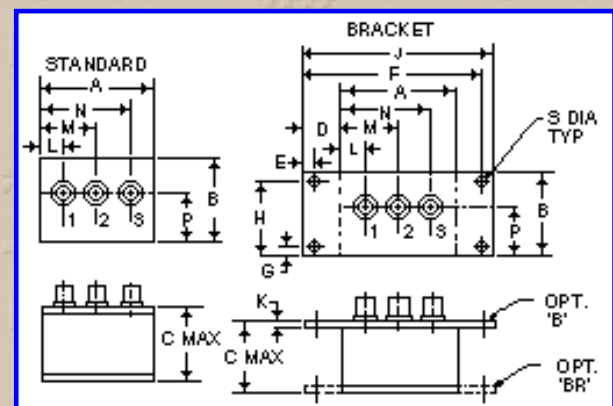
L=low range( $f_L$  to  $10f_L$ ) M=mid range( $10f_L$  to  $f_U/2$ ) U=upper range( $f_U/2$  to  $f_U$ )

### Pin Connections

Port	Input	Output	Coupled (forward)	Coupled (reverse)
dd	3	2	1	-
Not Used	Case GND	Termination	GND	
-	-	-	-	-

### Notes:

- Mainline Loss includes theoretical power loss at coupled port.
- General Quality Control Procedures and Environmental Specifications are given in [Mini-Circuits Guarantees Quality](#). Hi-Rel, MIL description are given in [Hi-Rel and MIL](#)
- Prices and Specifications subjects to change without notice.



FREQ (MHz)	I. Loss (dB) In-Out	Coupling (dB) In-CPL	Directivity (dB)	Return Loss (dB)		
				In	Out	CPL
0.50	0.93	15.12	49.21	18.94	17.37	16.35
0.60	0.91	15.08	49.29	19.69	17.89	16.80
0.70	0.89	15.04	49.30	20.29	18.30	17.19
0.80	0.88	15.01	48.73	20.80	18.67	17.54
0.90	0.85	14.97	48.59	21.28	19.00	17.86
1.00	0.83	14.95	48.94	21.71	19.30	18.16
2.00	0.70	14.78	48.52	25.10	21.42	20.25
3.00	0.64	14.70	48.02	27.26	22.49	21.28
4.00	0.62	14.68	47.98	28.64	23.05	21.86
5.00	0.61	14.66	47.86	29.58	23.37	22.19
10.00	0.61	14.64	47.40	31.20	23.79	22.81
19.00	0.63	14.65	46.49	30.67	23.56	22.75
28.00	0.65	14.67	45.17	29.79	23.22	22.51
37.00	0.65	14.66	43.96	29.12	22.93	22.29
46.00	0.65	14.66	43.50	28.62	22.68	22.10
55.00	0.69	14.69	41.99	28.18	22.46	21.92
64.00	0.71	14.71	40.70	27.81	22.26	21.74
73.00	0.69	14.70	39.90	27.49	22.06	21.56
82.00	0.67	14.68	39.12	27.14	21.85	21.36
91.00	0.66	14.67	38.56	26.83	21.65	21.17
100.00	0.70	14.71	37.79	26.53	21.45	20.99
110.00	0.74	14.78	37.21	26.21	21.23	20.75
125.00	0.75	14.79	36.30	25.71	20.87	20.41
130.00	0.73	14.78	35.91	25.57	20.77	20.31
140.00	0.72	14.76	35.43	25.24	20.53	20.06
150.00	0.71	14.77	35.07	24.92	20.29	19.82

### Case Style - M22 (inch,mm) weight: 74 grams.

A	B	C	D	E	F	G	H	J
2.25	1.38	1.24	.50	.150	3.100	.138	1.238	3.25
57.150	35.052	31.496	12.700	3.810	78.740	3.505	31.445	82.550
K	L	M	N	P	Q	R	S	T
.10	.40	1.15	1.86	.64			.150	
2.540	10.160	29.210	47.244	16.256			3.810	

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

### Material and Finish:

Case material: aluminum alloy. Finish: blue anodized.

Mounting bracket finish: iridite or clear anodize.

Case material: aluminum alloy. Finish: blue paint over iridite.

### Mounting:

Mounting bracket available on request. For bracket mounted on the rear, add suffix BR to part number and add \$1.50 to unit cost.

### Marking:

For port markings 1, 2, and 3 see specification data sheet.

### Connectors:

Connectors: BNC standard, TNC consult factory.

160.00	0.71	14.77	34.69	24.61	20.05	19.58
170.00	0.72	14.79	34.26	24.31	19.83	19.35
180.00	0.77	14.86	34.02	24.00	19.59	19.11
190.00	0.85	14.95	33.74	23.69	19.37	18.88
200.00	0.84	14.95	33.62	23.41	19.14	18.64
205.00	0.81	14.92	33.39	23.28	19.04	18.53
210.00	0.77	14.89	33.35	23.13	18.92	18.41
215.00	0.75	14.85	33.30	22.98	18.82	18.29
220.00	0.73	14.83	33.26	22.85	18.71	18.18
225.00	0.71	14.81	33.10	22.71	18.61	18.06
230.00	0.72	14.83	33.13	22.58	18.51	17.96
235.00	0.74	14.87	33.04	22.44	18.41	17.85
240.00	0.79	14.95	33.23	22.32	18.30	17.74
245.00	0.84	15.02	32.98	22.17	18.19	17.63
250.00	0.88	15.07	32.99	22.06	18.10	17.53



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