

Plug-In

Bi-Directional Coupler

50Ω 1 to 400 MHz

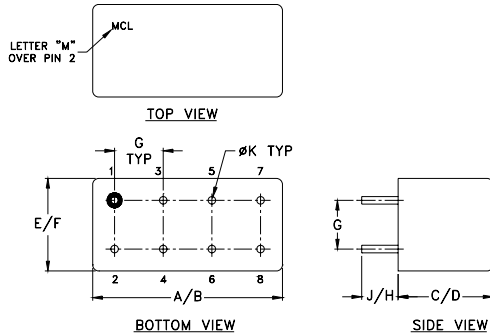
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

Pin Connections

INPUT	1
OUTPUT	4
COUPLED (forward)	3
COUPLED (reverse)	6
GROUND	2,5,7,8
CASE GROUND	2,5,7,8

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K		wt
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2

Features

- wideband, 1 to 400 MHz
- up to 4W power input
- excellent directivity, 35 dB typ.
- low insertion loss, 0.8 dB typ.
- rugged welded construction, hermetically sealed

Applications

- VHF/UHF
- communication receivers & transmitters
- instrumentation



CASE STYLE: A01

PRICE: \$13.70 ea. QTY. (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Directional Coupler Electrical Specifications

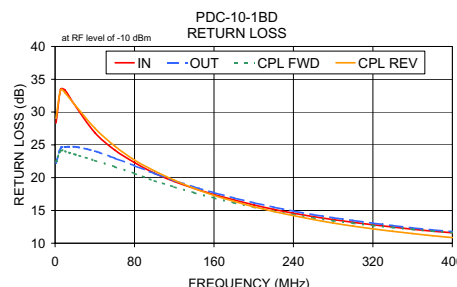
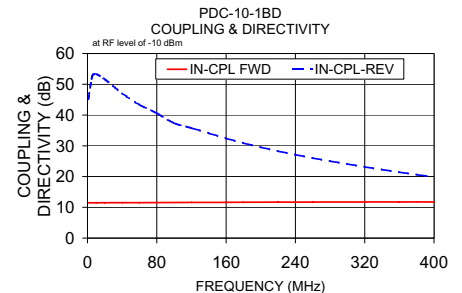
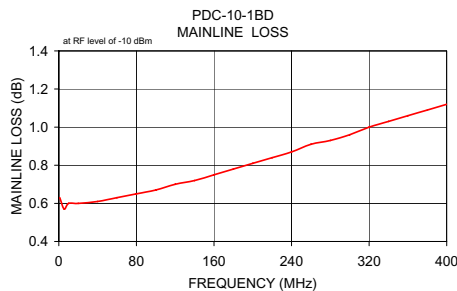
FREQ. (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)						DIRECTIVITY (dB)						VSWR (:1)	POWER INPUT, W	
			L		M		U		L		M		U			L	MU
	f _L -f _U	Nom.	Flatness	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.		Min.	Typ.
1-400	11.5±0.5	±0.5	0.6	0.9	0.8	1.1	0.9	1.3	55	35	35	20	22	15	1.2	2.0	4.0

L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

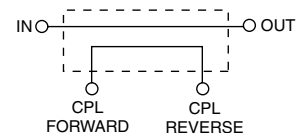
1. Mainline loss includes theoretical power loss at coupled port.

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB)	Coupling (dB)		Directivity (dB)		Return Loss (dB)			
	In-Out	In-Cpl Fwd	Out-Cpl Rev	Out-Cpl Fwd	In-Cpl Rev	In	Out	Cpl Fwd	Cpl Rev
1.00	0.63	11.50	11.50	81.10	45.13	28.35	22.22	22.43	29.02
5.50	0.57	11.47	11.45	46.78	52.71	33.44	24.48	24.09	33.36
10.00	0.60	11.49	11.48	41.73	53.31	33.34	24.67	24.02	32.94
20.00	0.60	11.49	11.48	37.25	51.62	31.02	24.71	23.55	31.09
40.00	0.61	11.51	11.48	34.59	47.08	26.87	24.06	22.62	27.54
80.00	0.65	11.55	11.54	32.34	40.59	22.30	21.81	20.63	22.68
160.00	0.75	11.63	11.67	27.76	32.42	17.43	17.71	16.91	17.30
240.00	0.87	11.70	11.84	23.89	27.12	14.58	14.90	14.36	14.21
320.00	1.00	11.74	12.05	20.01	23.15	12.81	13.06	12.71	12.19
400.00	1.12	11.74	12.27	17.04	19.89	11.60	11.78	11.62	10.87



electrical schematic



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