

Plug-In Directional Coupler

50Ω 1 to 500 MHz

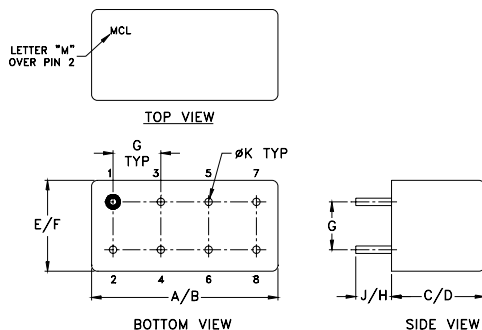
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

INPUT	1
OUTPUT	4
COUPLED	3
GROUND	2,5,7,8
CASE GROUND	2,5,7,8
NOT USED	6

Outline Drawing



Outline Dimensions (inch/mm)

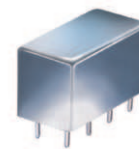
A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K		
.200	.20	.14	.031		
5.08	5.08	3.56	0.79		
					wt
					grams
					5.2

Features

- wideband, 1 to 500 MHz
- excellent directivity, 35 dB typ.
- low mainline loss, 0.7 dB typ.
- rugged welded construction, hermetically sealed

Applications

- VHF/UHF
- power levelling & monitoring
- defense & federal communications



CASE STYLE: A01
PRICE: \$26.20 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

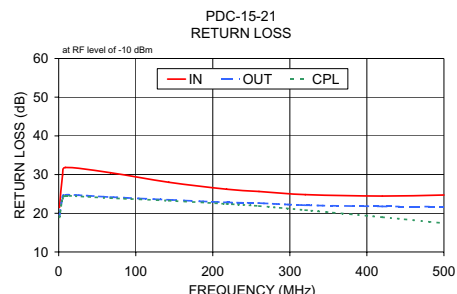
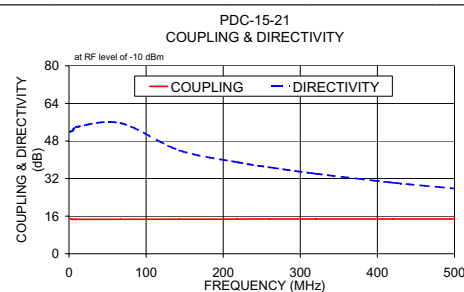
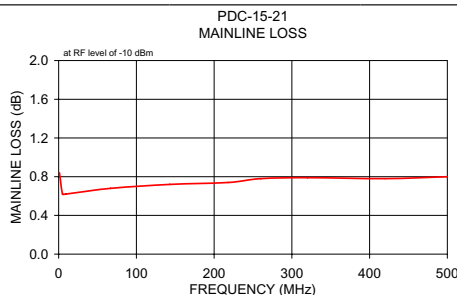
FREQ. (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)						DIRECTIVITY (dB)						VSWR (:1)	POWER INPUT, W	
			L		M		U		L		M		U				
	f _L -f _U	Nom.	Flatness	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.
1-500	14.7±0.5	±0.6	0.7	1.1	0.7	1.1	0.8	1.2	35	30	35	30	30	23	1.4	1.0	2.0

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]

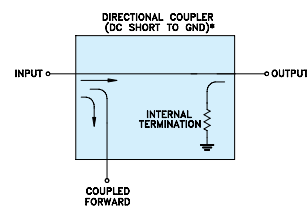
1. Mainline loss includes theoretical power loss at coupled port.

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
1.00	0.84	14.92	51.87	21.50	19.50	18.97
5.00	0.62	14.65	52.53	29.88	24.24	23.75
9.00	0.62	14.63	53.94	31.83	24.82	24.50
67.00	0.68	14.68	55.63	30.49	24.19	23.92
143.00	0.72	14.72	44.02	28.00	23.48	23.25
218.00	0.74	14.74	38.99	26.21	22.83	22.42
260.00	0.78	14.81	36.81	25.64	22.64	21.88
320.00	0.79	14.83	34.10	24.83	22.09	20.83
420.00	0.78	14.81	30.29	24.45	21.78	19.00
500.00	0.80	14.82	27.78	24.72	21.71	17.45



Electrical Schematic



* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMER(S) THAT ROUTES DC FROM RF PORTS TO GROUND.

For detailed performance specs
& shopping online see web site

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