

Plug-In Directional Coupler

PDC-10-6-75

75Ω 0.2 to 100 MHz



CASE STYLE: A01
PRICE: \$26.20 ea. QTY. (1-9)

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

Features

- excellent directivity, 40 dB typ.
- low mainline loss, 0.9 dB typ.
- rugged welded construction, hermetically sealed

Applications

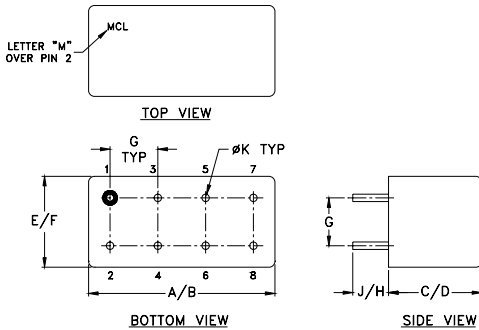
- HF/VHF
- defense & federal communications
- power levelling & monitoring

Directional Coupler Electrical Specifications

FREQ. (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)						DIRECTIVITY (dB)						VSWR (:1)	POWER INPUT, W		
	Nom.	Flatness	L		M		U		L		M		U			Typ.	L	MU
			Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.				
0.2-100	10.0±0.5	±0.2	1.2	1.6	0.9	1.2	0.9	1.3	50	30	40	25	37	25	1.5	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.

Outline Drawing



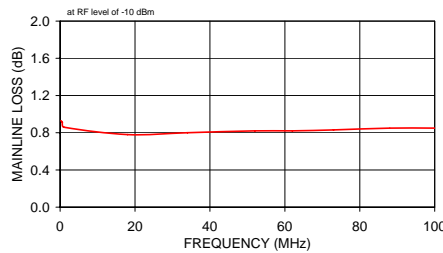
Outline Dimensions (inch/mm)

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

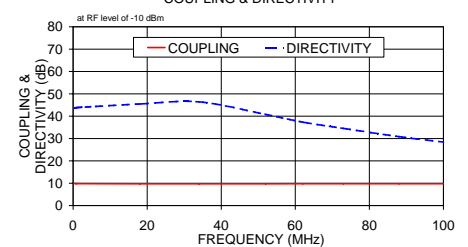
Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
0.20	0.93	9.89	43.78	21.53	17.97	17.77
0.60	0.91	9.85	43.64	28.13	19.77	19.86
1.00	0.86	9.81	43.86	29.20	20.40	20.56
18.00	0.78	9.73	45.45	28.82	21.98	22.00
34.00	0.80	9.73	46.44	28.45	22.08	21.51
52.00	0.82	9.75	40.79	28.17	22.03	20.49
62.00	0.82	9.76	37.37	27.94	21.96	19.82
73.00	0.83	9.76	34.54	27.52	21.95	19.09
88.00	0.85	9.76	30.86	26.80	22.04	18.22
100.00	0.85	9.76	28.43	26.25	22.14	17.60

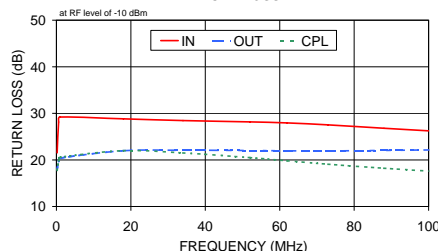
PDC-10-6-75
MAINLINE LOSS



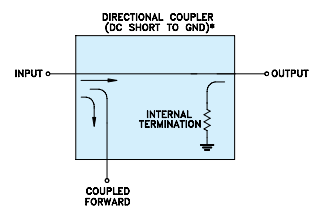
PDC-10-6-75
COUPLING & DIRECTIVITY



PDC-10-6-75
RETURN LOSS



Electrical Schematic



* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMERS THAT ROUTES DC FROM RF PORTS TO GROUND.

For detailed performance specs & shopping online see web site



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