Plug-In

Directional Coupler

PDC-15-6+

50Ω 0.01 to 35 MHz



Generic photo used for illustration purposes only

CASE STYLE: A01

+RoHS Compliant

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

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

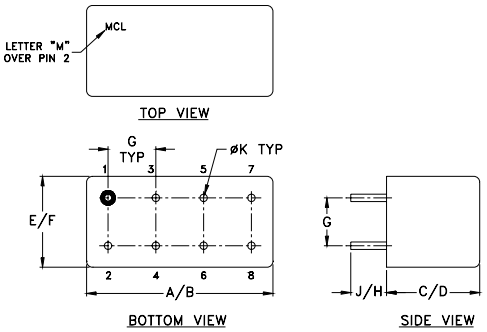
Features

- excellent directivity, 35 dB typ.
- low mainline loss, 0.2 dB typ.
- good VSWR, 1.15 typ.
- up to 4W input
- rugged welded construction, hermetically sealed

Applications

- HF
- amateur radio
- instrumentation
- communications

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

Directional Coupler Electrical Specifications

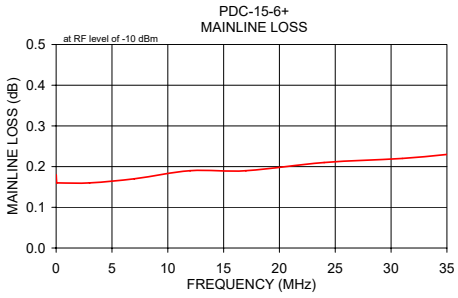
FREQ. (MHz)	COUPLING (dB)		MAINLINE LOSS[1] (dB)						DIRECTIVITY (dB)						VSWR (:1)	POWER INPUT, W	
			L		M		U		L		M		U			L	MU
f_L-f_U	Nom.	Flatness	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Max.
0.01-35	15.0±0.5	±0.5	0.3	0.6	0.2	0.4	0.3	0.6	38	30	35	25	28	20	1.15	2.0	4.0

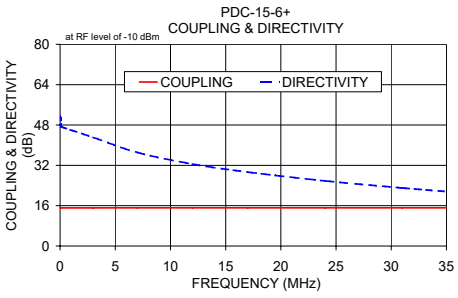
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

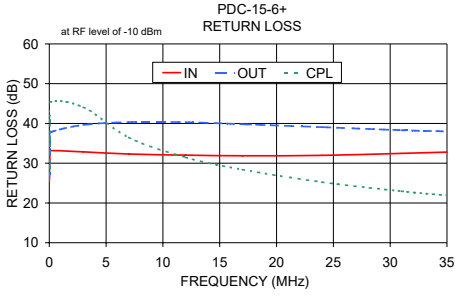
1. Mainline loss includes theoretical power loss at coupled port.

Typical Performance Data

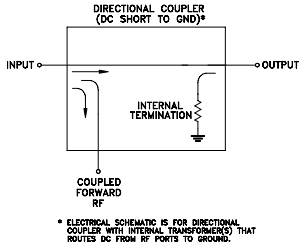
Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB) In	Return Loss (dB) Out	Return Loss (dB) Cpl
0.01	0.18	15.17	51.68	25.48	25.78	27.10
0.05	0.16	15.13	47.89	32.51	36.17	40.39
0.09	0.16	15.13	47.35	33.18	37.76	45.37
3.00	0.16	15.13	43.11	32.85	39.63	44.08
7.00	0.17	15.15	37.12	32.31	40.33	36.48
12.00	0.19	15.16	32.53	32.03	40.31	31.49
17.00	0.19	15.16	29.32	31.88	39.82	28.39
24.00	0.21	15.17	25.84	31.97	39.07	25.24
31.00	0.22	15.17	23.04	32.48	38.32	22.96
35.00	0.23	15.16	21.62	32.79	37.98	21.89







Electrical Schematic



Notes

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