

Coaxial

Directional Coupler

50Ω

1 to 2000 MHz

查询ZFDC-10-5供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

ZFDC-10-5

Maximum Ratings

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

Pin Connections

PORT	db
INPUT	1
OUTPUT	2
COUPLED	3

Features

- very wideband, 1 to 2000 MHz
- excellent directivity, 30 dB typ.
- rugged shielded case



CASE STYLE: K18
CONNECTORS: BNC
PRICE: \$84.95 ea. QTY (1-9)
\$89.95 ea. QTY (1-9) SMA or N-type

Applications

- cellular
- instrumentation
- communication receivers & transmitters
- GPS

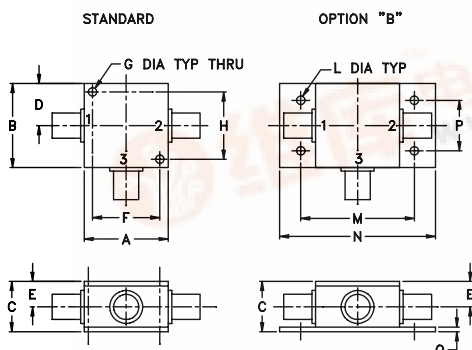
Directional Coupler Electrical Specifications

FREQ. RANGE (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.
1-2000	10.8±0.5	±0.5	1.2	1.9	1.2	1.8	1.8	2.5	38	25	30	18	22	18	1.3	0.5	0.5

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)

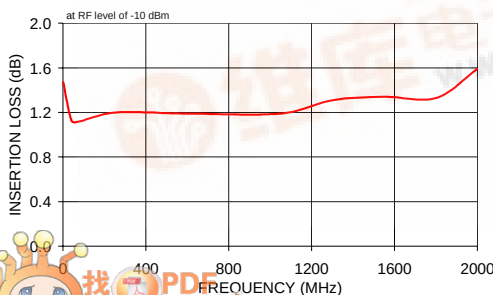
A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.00	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40

J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.75	.07	grams
--	--	3.18	42.88	55.37	19.05	1.78	70.0

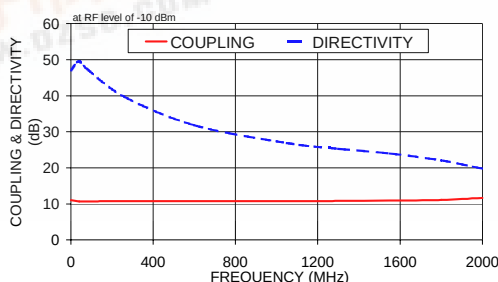
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
1.00	1.47	11.03	47.08	14.55	18.01	18.03
40.00	1.13	10.71	49.57	18.26	30.69	31.26
80.00	1.12	10.70	47.38	18.32	30.20	30.46
260.00	1.20	10.78	39.74	18.61	27.02	25.80
600.00	1.19	10.77	31.82	18.79	22.14	19.98
1050.00	1.19	10.73	26.87	18.84	19.38	15.98
1300.00	1.31	10.81	25.29	18.83	18.76	14.75
1550.00	1.34	10.96	23.98	18.70	17.75	13.90
1800.00	1.33	11.08	22.06	17.99	15.32	13.15
2000.00	1.59	11.68	19.78	16.91	12.53	12.52

ZFDC-10-5
INSERTION LOSS



ZFDC-10-5
COUPLING & DIRECTIVITY



ZFDC-10-5
RETURN LOSS

