

Coaxial Directional Coupler

50Ω

1 to 2000 MHz

ZFDC-10-5+ ZFDC-10-5



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.	

Coaxial Connections

INPUT	1
OUTPUT	2
COUPLED	3

Features

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

Applications

- cellular
- instrumentation
- communication receivers & transmitters
- GPS

BNC version shown

CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFDC-10-5(+)	\$84.95	(1-9)
SMA	ZFDC-10-5-S+	\$89.95	(1-9)
N-TYPE	ZFDC-10-5-N(+)	\$89.95	(1-9)
BRACKET (OPTION "B")		\$2.50	(1+)

+ 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. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS¹ (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.
1-2000	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

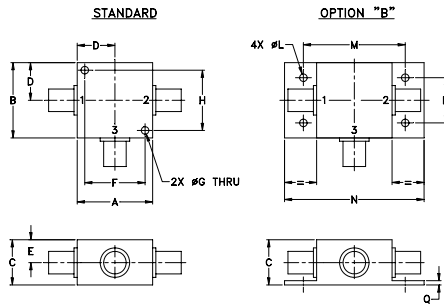
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

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

Typical Performance Data

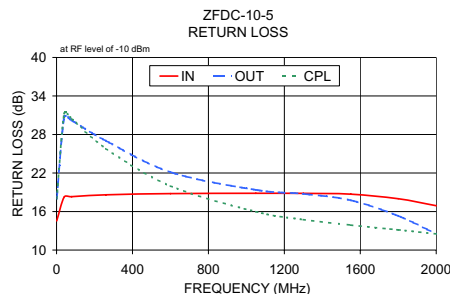
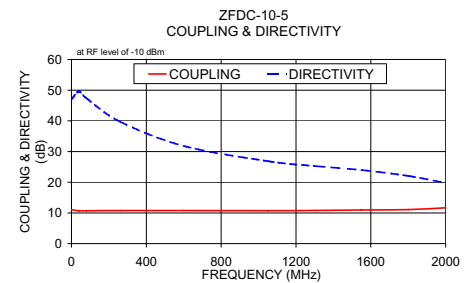
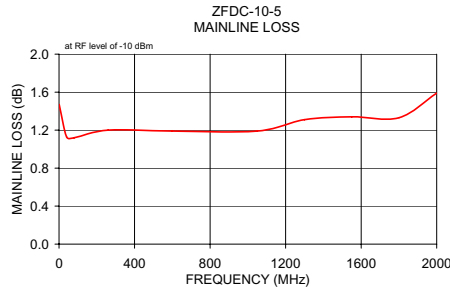
Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		Cpl
				In	Out	
1.00	1.47	11.03	47.08	14.55	18.01	18.03
40.00	1.13	10.71	49.57	18.26	30.69	31.26
80.00	1.12	10.70	47.38	18.32	30.20	30.46
260.00	1.20	10.78	39.74	18.61	27.02	25.80
600.00	1.19	10.77	31.82	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

Outline Drawing

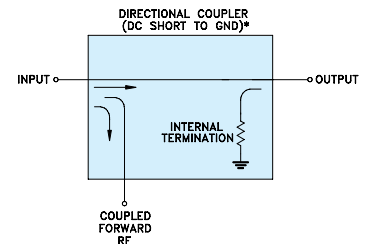


Outline Dimensions (inch)

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



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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