

Coaxial Directional Coupler

50 Ω

1 to 2000 MHz

ZFDC-15-5

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	3
OUTPUT	1
COUPLED	2

Features

- very wideband, 1 to 2000 MHz
- excellent directivity, 25 dB typ.
- rugged shielded case

Applications

- cellular
- instrumentation
- communications receivers & transmitters
- GPS



BNC version shown
CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFDC-15-5	\$71.95	(1-9)
SMA	ZFDC-15-5-S	\$76.95	(1-9)
N-TYPE	ZFDC-15-5-N	\$76.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)

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.	Max.
1-2000	15.5±0.5	±1.0	1.2	1.8	1.2	1.8	1.3	2.3	30	20	25	20	18	11	1.3	0.5	2.0

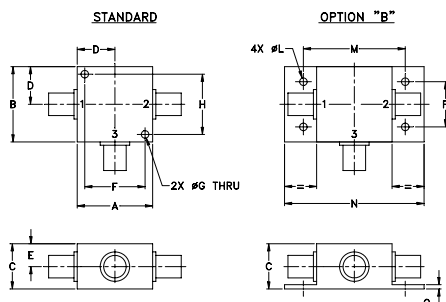
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

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

Typical Performance Data

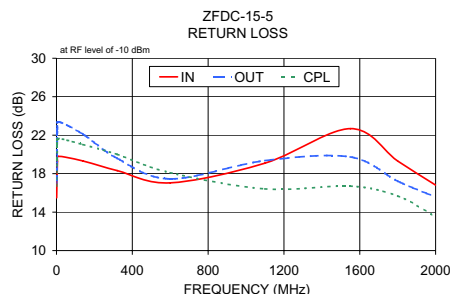
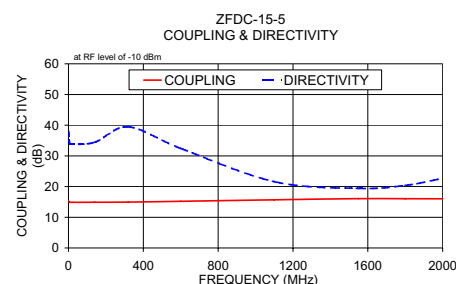
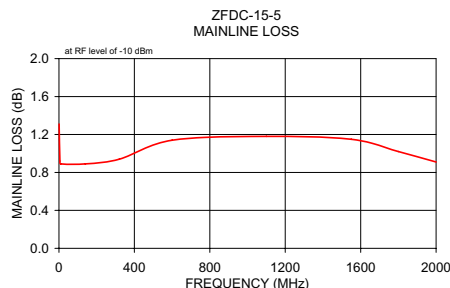
Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
1.00	1.31	15.29	37.94	15.49	17.00	16.71
5.00	0.92	14.91	34.30	19.27	22.45	21.09
9.00	0.89	14.87	33.82	19.80	23.40	21.66
140.00	0.89	14.89	34.43	19.32	22.11	21.03
320.00	0.94	14.94	39.47	18.32	19.60	20.01
600.00	1.14	15.20	32.43	17.04	17.46	18.10
1100.00	1.18	15.69	21.62	19.09	19.36	16.42
1550.00	1.15	16.06	19.42	22.68	19.74	16.70
1800.00	1.02	16.05	20.39	19.31	17.22	15.67
2000.00	0.91	16.01	22.68	16.81	15.57	13.54

Outline Drawing

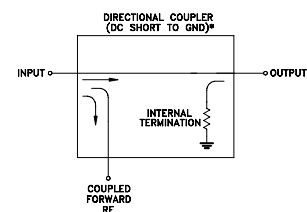


Outline Dimensions (inch)

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 TRANSFORMERS THAT ROUTES DC FROM RF PORTS TO GROUND.

For detailed performance specs
& shipping online see web site



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