

Coaxial Directional Coupler

50Ω

1 to 1000 MHz

ZEDC-10-2B

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

- wideband, 1 to 1000 MHz
- excellent directivity, 30 dB typ.
- rugged shielded case

Applications

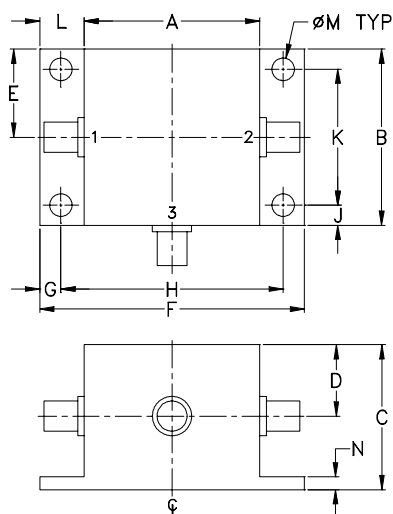
- VHF/UHF
- instrumentation
- communication receivers & transmitters
- cellular



CASE STYLE: V37

Connectors	Model	Price	Qty.
SMA	ZEDC-10-2B	\$64.95 ea.	(1-9)

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.83	.83	.75	.37	.42	1.25	.10
21.08	21.08	19.05	9.40	10.67	31.75	2.54
H	J	K	L	M	N	wt
1.050	.10	.640	.21	.106	.06	grams
26.67	2.54	16.26	5.33	2.69	1.52	22.0

Directional Coupler Electrical Specifications

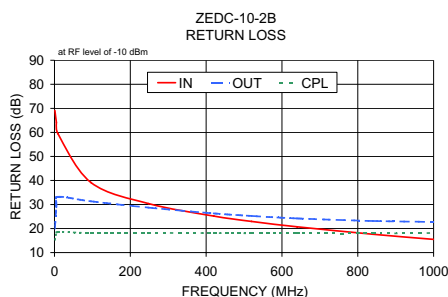
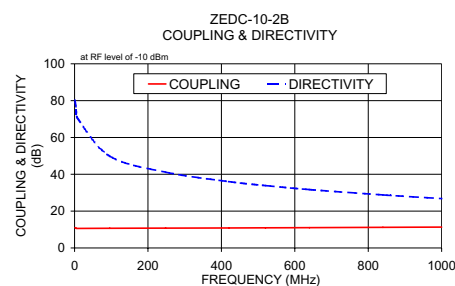
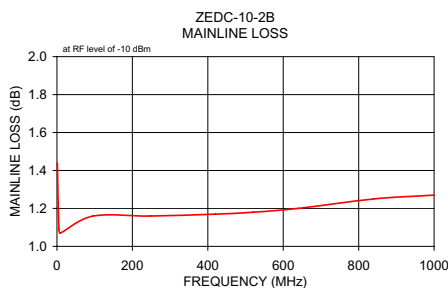
FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS¹ (dB)						DIRECTIVITY (dB)						VSWR (:1)	POWER INPUT (W)	
			L		M		U		L		M		U				
	f _L -f _U	Nom.	Flatness	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.
1-1000	11±0.5	±0.75	1.3	1.8	1.5	1.8	1.5	1.8	35	30	30	20	18	13	1.3	1.5	3.0

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]

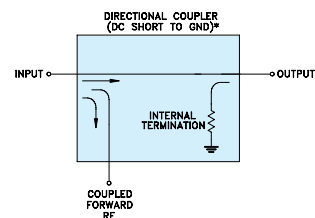
1. Mainline loss includes theoretical power loss at coupled port.

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
1.00	1.44	11.03	80.15	69.12	20.04	15.32
5.00	1.09	10.64	74.80	64.16	29.77	18.35
9.00	1.07	10.62	70.11	59.49	33.22	18.65
96.00	1.16	10.69	49.83	39.14	31.36	18.19
248.00	1.16	10.76	41.15	30.39	28.72	18.19
420.00	1.17	10.84	36.04	25.20	26.31	18.12
520.00	1.18	10.92	33.89	22.97	25.24	18.03
640.00	1.20	11.01	31.72	20.71	24.23	17.96
840.00	1.25	11.21	28.83	17.62	23.14	17.96
1000.00	1.27	11.32	26.81	15.49	22.76	18.15



Electrical Schematic



* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMER(S) THAT ROUTES DC FROM RF PORTS TO GROUND.

For detailed performance specs & shipping online see web site

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