

Coaxial Directional Coupler

ZDC-2375+ ZDC-2375

75Ω

50 to 100 MHz



Maximum Ratings

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

Coaxial Connections

INPUT	3
OUTPUT	2
COUPLED	1

Features

- excellent directivity, 35 dB typ.
- rugged shielded case

Applications

- VHF
- instrumentation
- amateur radio

CASE STYLE: M22

Connectors	Model	Price	Qty.
BNC	ZDC-2375(+)	\$52.95 ea.	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

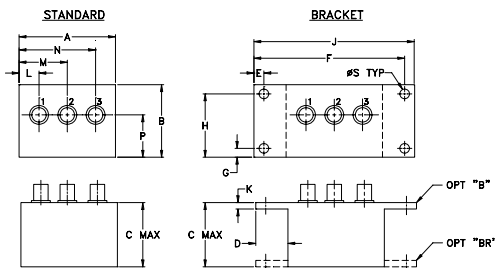
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Directional Coupler Electrical Specifications

FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT (W)
	Nom.	Flatness	Typ.	Max.	Typ.	Min.		
f_L - f_U								
50-100	10.5±0.3	±0.2	1.1	1.3	35	30	1.3	4.0

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

Outline Drawing



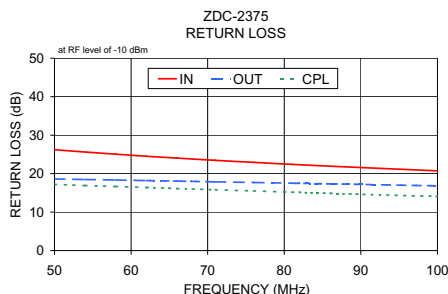
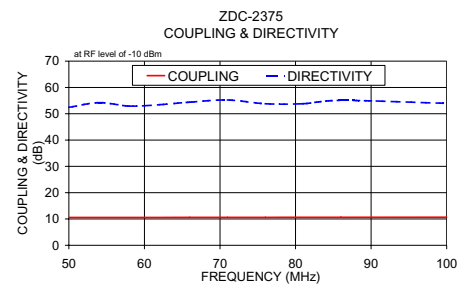
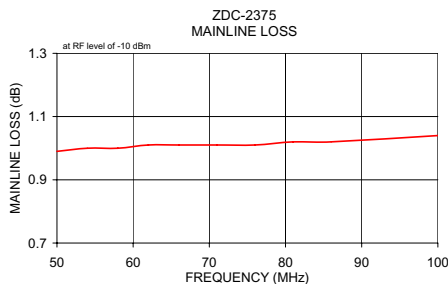
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
2.25	1.38	1.24	.50	.150	3.100	.138	1.238
57.15	35.05	31.50	12.70	3.81	78.74	3.51	31.45

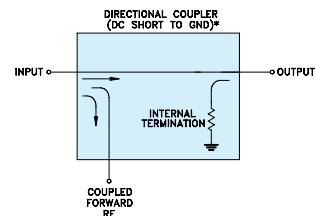
J	K	L	M	N	P	S	wt
3.25	.10	.40	1.15	1.86	.64	.150	grams
82.55	2.54	10.16	29.21	47.24	16.26	3.81	74.0

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		Cpl
				In	Out	
50.00	0.99	10.57	52.45	26.22	18.63	17.21
54.00	1.00	10.58	54.23	25.62	18.48	16.93
58.00	1.00	10.58	52.93	25.06	18.35	16.67
62.00	1.01	10.59	53.45	24.52	18.21	16.40
66.00	1.01	10.60	54.40	24.05	18.07	16.14
71.00	1.01	10.61	55.26	23.47	17.89	15.82
76.00	1.01	10.62	53.83	22.93	17.72	15.51
81.00	1.02	10.63	53.81	22.42	17.53	15.19
86.00	1.02	10.64	55.09	21.94	17.36	14.89
100.00	1.04	10.68	53.96	20.73	16.84	14.08



Electrical Schematic



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IF/RF MICROWAVE COMPONENTS