

Coaxial Directional Coupler

75Ω

50 to 100 MHz

ZDC-2375+



Generic photo used for illustration purposes only

CASE STYLE: M22

Connectors Model

BNC ZDC-2375+

BRACKET (OPTION "B")

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+RoHS Compliant

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

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 2

COUPLED 1

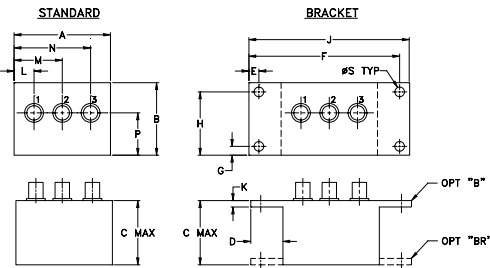
Features

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

Applications

- VHF
- instrumentation
- amateur radio

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

Directional Coupler Electrical Specifications

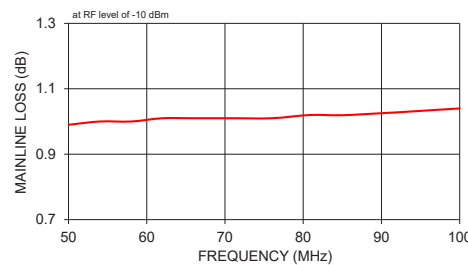
FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT (W)
	Nom.	Flatness	Typ.	Max.	Typ.	Min.		
f _L -f _U								
50-100	10.5±0.3	±0.2	1.1	1.3	35	30	1.3	4.0

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

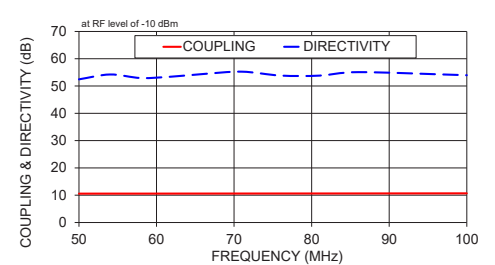
Typical Performance Data

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

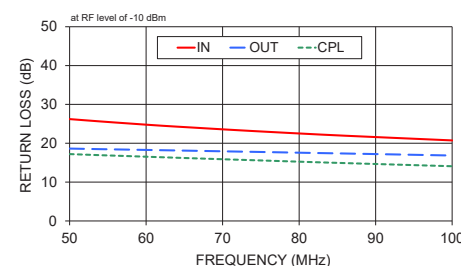
ZDC-2375+ MAINLINE LOSS



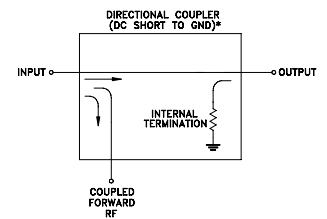
ZDC-2375+ COUPLING & DIRECTIVITY



ZDC-2375+ RETURN LOSS



Electrical Schematic



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

Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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