

75Ω

10 to 1000 MHz

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	S

Features

- wideband, 10 to 1000 MHz
- excellent VSWR, 1.17 typ.
- rugged shielded case

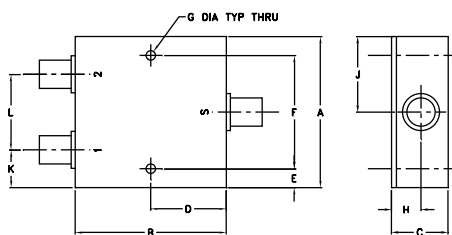
Applications

- cable tv
- instrumentation
- cellular



CASE STYLE: F14

Connectors	Model
BNC	ZADC-10-4-75

Outline Drawing**Outline Dimensions (inch)**

A	B	C	D	E	F	G
2.00	2.00	0.75	1.00	0.25	1.500	0.125
50.80	50.80	19.05	25.40	6.35	38.10	3.18

H	J	K	L	wt
0.39	1.00	0.50	1.00	grams
9.91	25.40	12.70	25.40	170.0

Directional Coupler Electrical Specifications

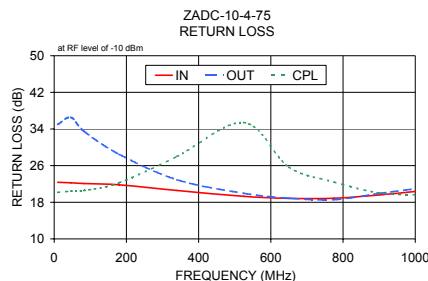
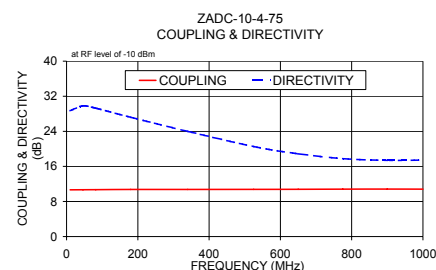
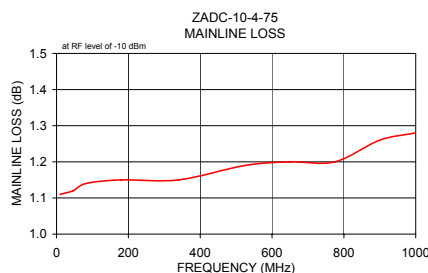
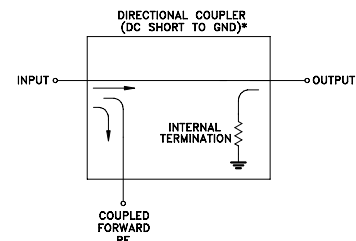
FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)						DIRECTIVITY (dB)						VSWR (:1)	POWER INPUT (W)	
	Nom.	Flatness	L		M		U		L		M		U			L	MU
f _L -f _U			Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Max.
10-1000	10.7±0.5	±0.5	1.18	1.9	1.28	1.9	1.32	1.9	27	20	22	15	18	13	1.17	1.0	1.0

L = 10-100 MHz M = 100-500 MHz U = 500-1000 MHz

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
10.00	1.11	10.66	28.71	22.36	35.00	20.15
46.00	1.12	10.68	29.82	22.25	36.55	20.44
82.00	1.14	10.69	29.29	22.09	33.54	20.56
180.00	1.15	10.74	27.22	21.81	28.49	22.26
340.00	1.15	10.74	23.99	20.57	22.92	28.01
525.00	1.19	10.77	20.53	19.29	19.96	35.42
650.00	1.20	10.78	18.88	18.85	18.89	25.69
775.00	1.20	10.81	17.77	18.87	18.57	22.43
900.00	1.26	10.83	17.39	19.59	19.93	20.02
1000.00	1.28	10.81	17.46	20.36	20.95	19.65

**Electrical Schematic**

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

Notes

- A. 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.
 B. 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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