

Coaxial Directional Coupler

75Ω

800 to 1750 MHz

ZADC-20-18-75

Maximum Ratings

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

Coaxial Connections

INPUT	S
OUTPUT	1
COUPLED	2

Features

- wideband, 800 to 1750 MHz
- excellent insertion loss, 0.4 dB typ.
- excellent VSWR, 1.2:1 typ.
- rugged shielded case

Applications

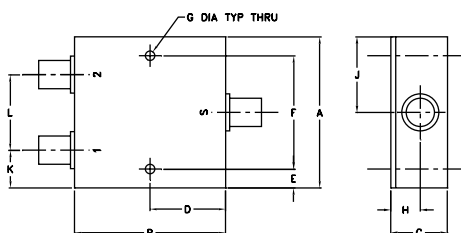
- catv
- GPS/cellular
- instrumentation



CASE STYLE: F14

Connectors	Model	Price	Qty.
BNC	ZADC-20-18-75	\$54.95 ea.	(1-9)

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.00	2.00	.75	1.00	.25	1.500	.125
50.80	50.80	19.05	25.40	6.35	38.10	3.18

H	J	K	L	wt
.39	1.00	.50	1.00	grams
9.91	25.40	12.70	25.40	170.0

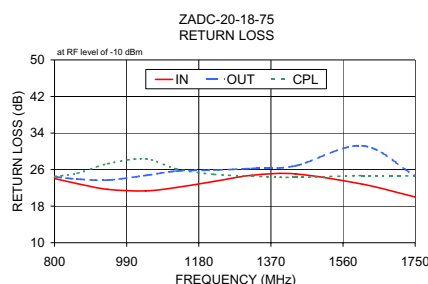
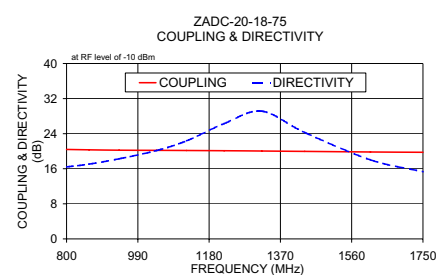
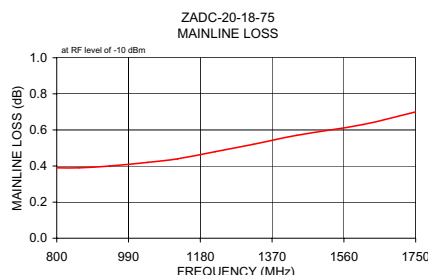
Directional Coupler Electrical Specifications

FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS ¹		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT (W)
	Nom.	Flatness	Typ.	Max.	Typ.	Min.		
f _L -f _U								
800-1750	19.8±0.6	±0.7	0.4	0.9	22	13	1.2	1.0

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)		
				In	Out	Cpl
800.00	0.39	20.40	16.42	24.06	24.43	24.51
860.00	0.39	20.32	17.06	22.94	23.93	25.20
940.00	0.40	20.23	18.28	21.68	23.71	27.29
1040.00	0.42	20.19	20.17	21.34	24.73	28.36
1120.00	0.44	20.16	22.38	22.08	25.68	26.18
1220.00	0.48	20.11	26.29	23.42	25.91	24.97
1320.00	0.52	20.05	29.14	24.76	26.25	24.58
1435.00	0.57	19.95	24.27	25.05	26.85	24.31
1610.00	0.63	19.82	18.04	22.84	31.24	24.71
1750.00	0.70	19.75	15.32	20.01	24.63	24.61



electrical schematic

