

DC Pass Directional Coupler

ZADC-20-10

50Ω

800 to 1000 MHz



SMA version shown
CASE STYLE: CC51-1

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
DC Current	1.5A

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

INPUT	1
OUTPUT	3
COUPLED	2

Features

- low mainline loss, 0.4 dB typ.
- excellent VSWR, 1.18 typ.
- power input up to 5W
- DC current through input to output 1.5A Max.

Applications

- GSM
- instrumentation
- cellular

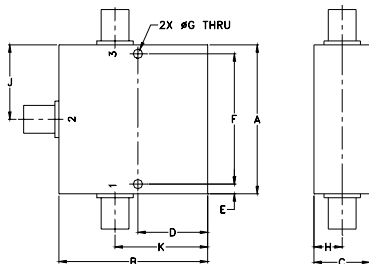
Connectors	Model	Price	Qty.
N-TYPE	ZADC-20-10-N	\$49.95 ea.	(1-9)
SMA	ZADC-20-10-S	\$49.95 ea.	(1-9)

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								
800-1000	20.0±0.6	±1.2	0.4	0.7	21	17	1.18	5

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

Outline Drawing

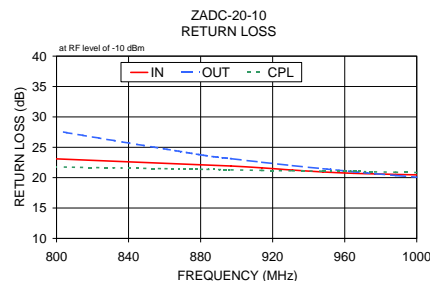
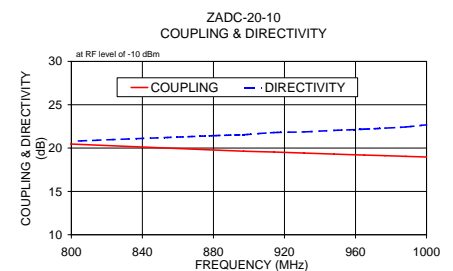
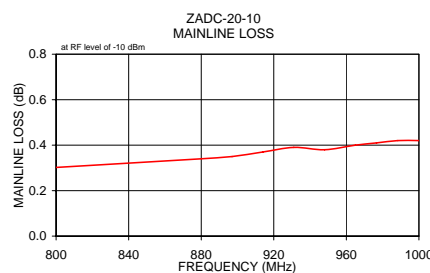


Outline Dimensions (inch/mm)

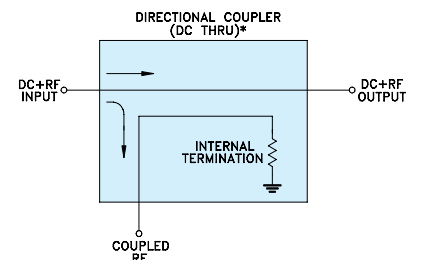
A	B	C	D	E	F	
2.00	2.00	.75	.938	.13	1.750	
50.80	50.80	19.05	23.83	3.30	44.45	
G	H	J	K		wt	
.125	.38	1.00	1.25		grams	
3.18	9.65	25.40	31.75		145.0	

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
753.33	0.28	20.86	20.41	23.66	29.98	21.98
880.00	0.34	19.78	21.43	22.11	23.76	21.39
897.00	0.35	19.64	21.54	21.92	23.13	21.29
914.00	0.37	19.54	21.79	21.61	22.54	21.20
931.00	0.39	19.42	21.87	21.25	21.99	21.13
948.00	0.38	19.30	22.04	20.93	21.47	21.07
965.00	0.40	19.19	22.18	20.71	20.98	21.03
976.66	0.41	19.12	22.30	20.62	20.67	20.96
988.33	0.42	19.04	22.44	20.53	20.36	20.90
1000.00	0.42	18.97	22.69	20.46	20.08	20.84



Electrical Schematic



* ELECTRICAL SCHEMATIC FOR DIRECTIONAL COUPLER THAT IS DESIGNED WITHOUT INTERNAL TRANSFORMERS.



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For detailed performance specs & shopping online see web site

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