

DC Pass Directional Coupler

ZADC-20-10+ ZADC-20-10

50Ω 800 to 1000 MHz

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



SMA version shown
CASE STYLE: CC51-1

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)

+RoHS Compliant

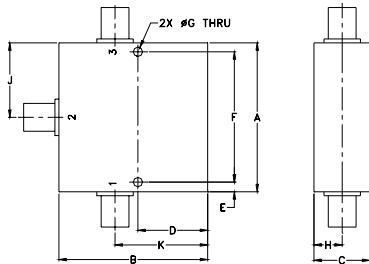
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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								
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

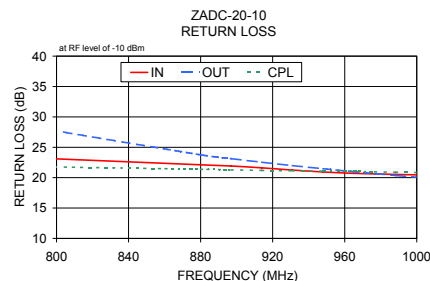
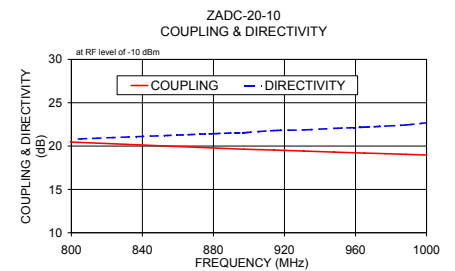
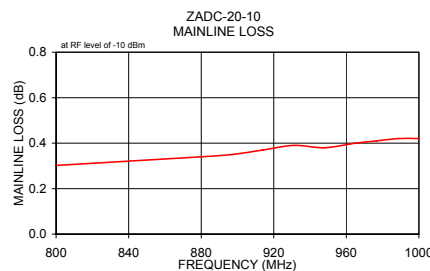


Outline Dimensions (inch/mm)

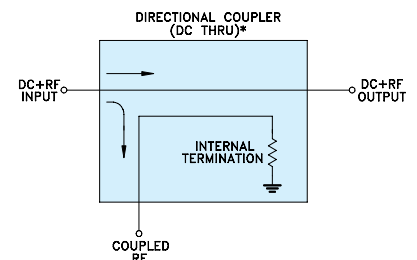
A	B	C	D	E	F	
2.00	2.00	.75	.938	.13	1.750	
50.80	50.80	19.05	23.83	3.30	44.45	
G	H	J	K		wt	
.125	.38	1.00	1.25		grams	
3.18	9.65	25.40	31.75		145.0	

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.

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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