

DC Pass Directional Coupler

50Ω Up to 5W 1000 to 1700 MHz

ZADC-10-17+ ZADC-10-17



CASE STYLE: CC51-1

Connectors	Model	Price	Qty.
SMA	ZADC-10-17(+)	\$49.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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
DC Current	1.0A

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

Coaxial Connections

INPUT	1
OUTPUT	3
COUPLED	2

Features

- excellent directivity, 25 dB typ.
- excellent VSWR, 1.20 typ.
- power input up to 5W
- low cost
- DC current through input to output 1.0A Max.

Applications

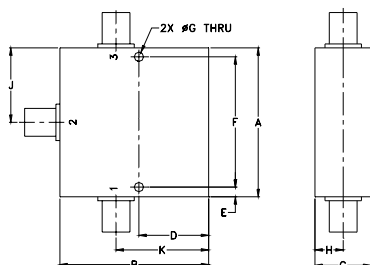
- GSM
- PCN
- cellular

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								
1000-1700	9.8±0.5	±1.0	0.8	1.3	25	17	1.2	5

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

Outline Drawing

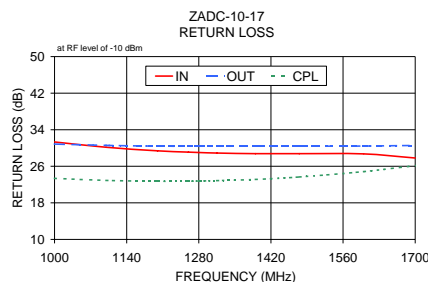
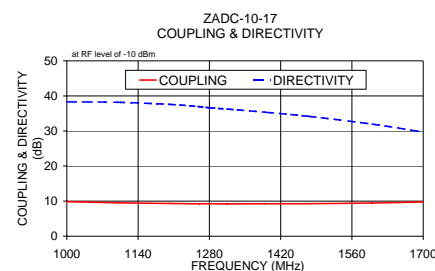
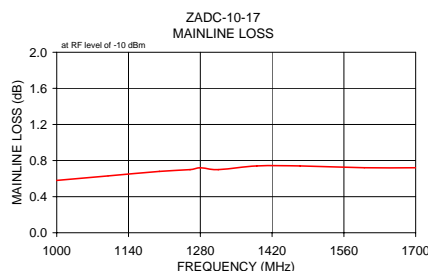


Outline Dimensions (inch/mm)

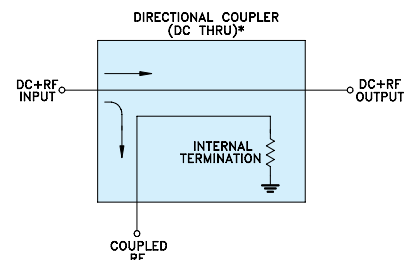
A	B	C	D	E	F	
2.00	2.00	.75	.938	.13	1.750	
50.80	50.80	19.05	23.83	3.30	44.45	
G	H	J	K			wt
.125	.38	1.00	1.25			grams
3.18	9.65	25.40	31.75			145.0

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
1000.00	0.58	9.85	38.31	31.32	30.87	23.36
1100.00	0.63	9.53	38.19	30.16	30.58	22.92
1200.00	0.68	9.34	37.62	29.39	30.42	22.73
1260.00	0.70	9.23	36.96	29.10	30.38	22.75
1280.00	0.72	9.26	36.64	29.01	30.40	22.78
1315.00	0.70	9.22	36.26	28.90	30.39	22.86
1390.00	0.74	9.25	35.35	28.76	30.40	23.13
1475.00	0.74	9.27	34.18	28.76	30.40	23.66
1600.00	0.72	9.47	31.97	28.71	30.43	24.84
1700.00	0.72	9.78	29.69	27.81	30.57	26.16



Electrical Schematic



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

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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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