

PRODUCT DATA SHEET

C5070

4-Port Dual Directional Coupler employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

Features:

High Power

Wide Bandwidths

Small Size

Flat Coupling

Custom Designs Available

Electrical Specifications:

Frequency: 800 - 2800 MHz
 Power: 1500 W CW
 Coupling: 50 ± 1.0 dB Max.
 Flatness: ± 0.75 dB Max.
 Insertion Loss: 0.2 dB Max.
 VSWR (ML): 1.30:1 Max.
 Directivity: 20 dB Min.

Mechanical Specifications:

Type: Connectorized
 Material: Aluminum 6061-T6
 Surface Finish: Chem. Film Per MIL-DTL-5541F
 Type I Class 3 (Yellow Iridite)
 RoHS Compliant Available
 Operating Temperature: -55°C to +75°C
 Storage Temperature: -60°C to +85°C
 Humidity: 95% Non-Condensing
 Size: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5070-10	N Female	N Female	N Female	N Female
C5070-12	N Female	N Female	SMA	SMA
C5070-13	N Female	N Female	BNC	BNC
C5070-20*	7/16 Female	7/16 Female	N Female	N Female
C5070-22*	7/16 Female	7/16 Female	SMA	SMA
C5070-41	SC Female	SC Female	N Female	N Female
C5070-43	SC Female	SC Female	SMA	SMA
C5070-71*	7/8" EIA	7/8" EIA	N Female	N Female
C5070-627*	7/16 Female	7/16 Male	N Female	N Female
C5070-714	N Male	N Female	N Female	N Female
C5070-727*	7/16 Male	7/16 Female	N Female	N Female
C5070-741	SC Male	SC Female	N Female	N Female

*Starred options are 3.0 x 3.0 x 1.59"**



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Model C5070

Connectorized Directional Couplers

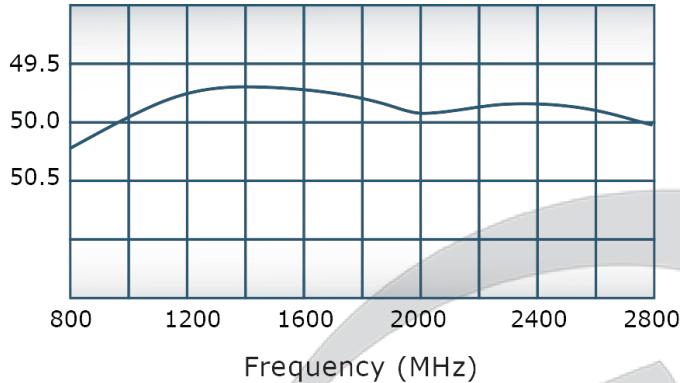


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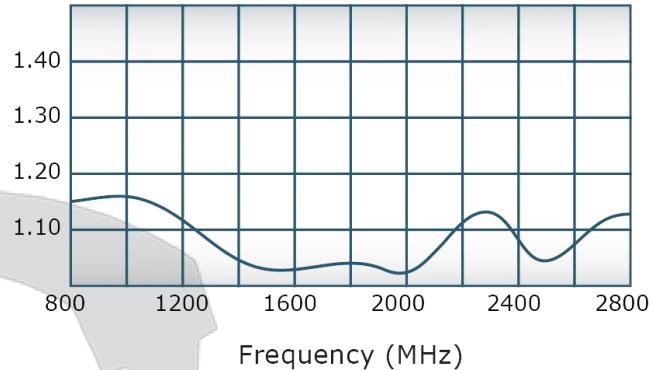
C5070

Performance Data (Specifications subject to change without notice):

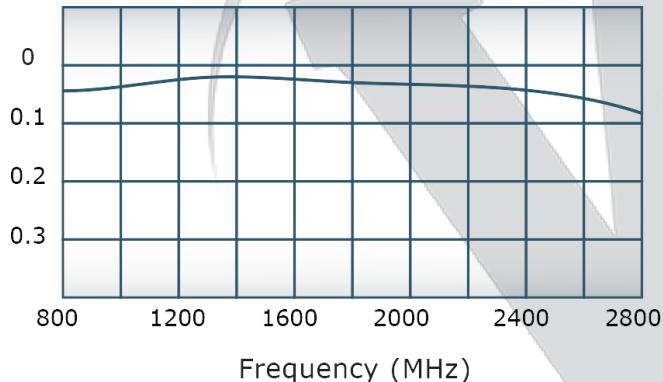
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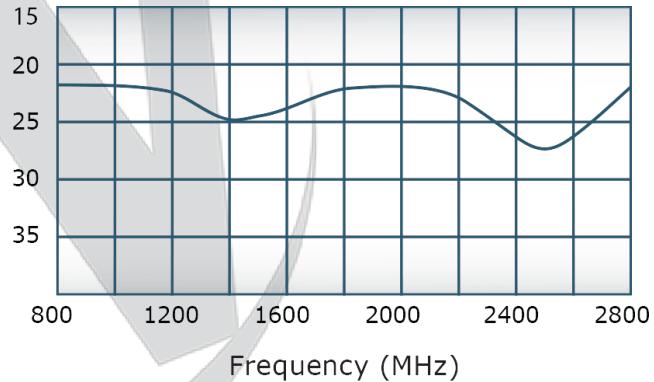
VSWR:



Insertion Loss:



Directivity:



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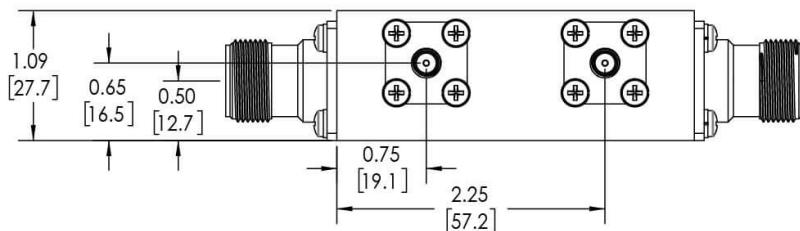
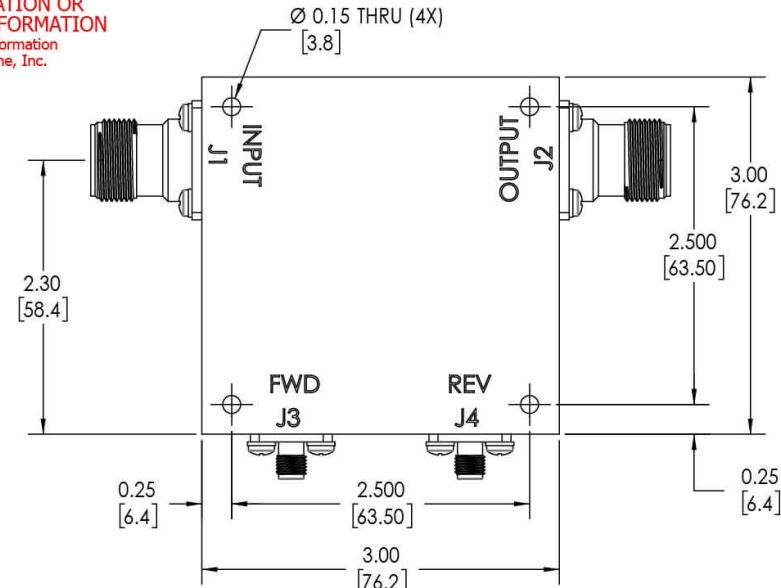
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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
J1, J2: SC FEMALE
J3, J4: SMA FEMALE

UNLESS OTHERWISE SPECIFIED	OWN	DATE	17 Jon Barrett Rd
INTERPRET DRAWING JAW MIL-STD-100	SD	2/11/2019	WERLATONE SINCE 1965
UNIFORM DRAWING AS 14-5M-2009	CHK	DATE	Patterson, NY 12563
PARENTHETICAL THIS FOR REFERENCE ONLY	CS	2/11/2019	
DIMENSIONAL LIMITS ARE IN INCHES	ENGR	DATE	
TOLERANCES	MJ	7/31/2000	
ANGLES $\pm 2^\circ$	MFGR	DATE	
3 RL $\pm .002$ [50.8]	QA	DATE	
2 RL $\pm .012$ [30.5]	RELEASE	DATE	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			REV A
CONCENTRICITY MACHINED DIA. .002 FIM			
MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY USED ON	B	SIZE	OUTLINE
APPLICATION	10379-501	CAGE CODE	
THIRD ANGLE PROJECTION	1:1	DWG NO.	

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