
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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C5070

Connectorized Directional Couplers

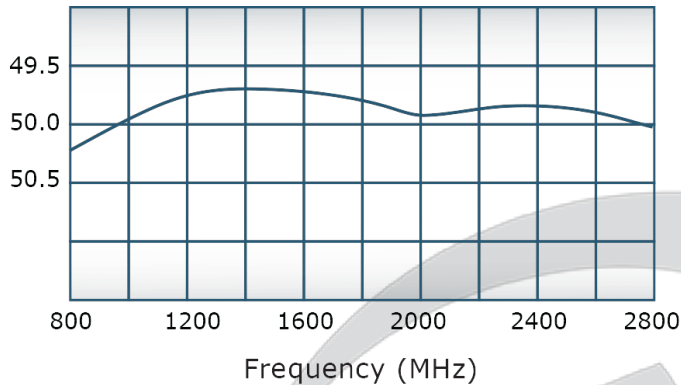


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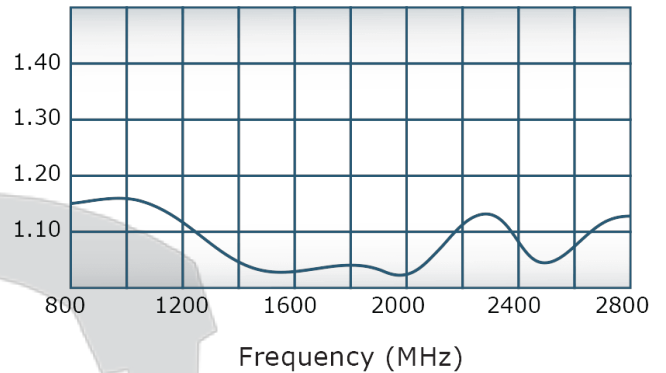
C5070

Performance Data (Specifications subject to change without notice):

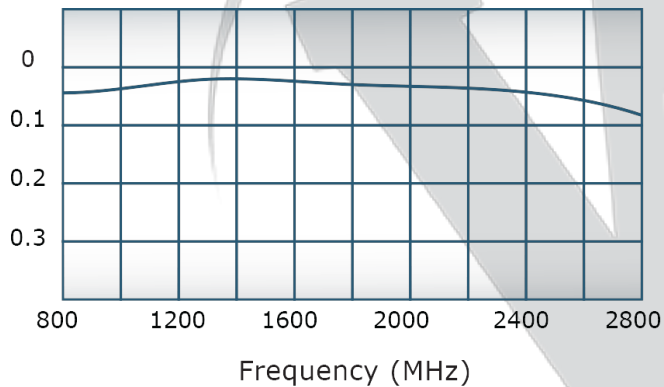
Coupling:



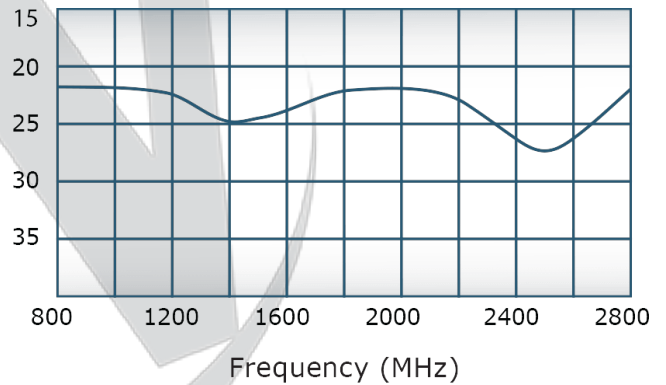
VSWR:



Insertion Loss:



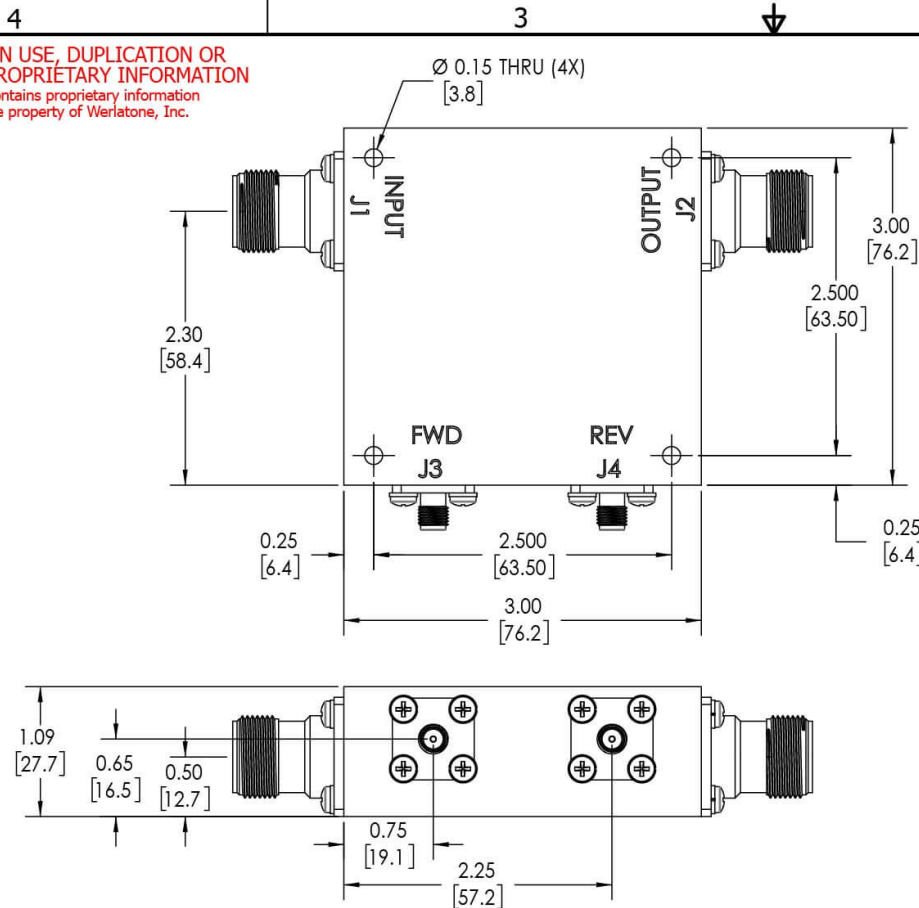
Directivity:



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NOTES: UNLESS OTHERWISE SPECIFIED

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

REVISION HISTORY

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

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563					
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/2019							
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE							
		PARENTHESES INFO FOR REF ONLY		CS	2/11/2019		TITLE					
		DIMENSIONS ARE IN INCHES		ENGR	DATE							
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MJ	7/31/2000							
		TOLERANCES:		INFR	DATE							
		ANGLES ± 2°		QA	DATE							
		3 PL ± .005 [13]		RLSE	DATE							
		2 PL ± .015 [38]						SIZE	CAGE CODE	DWG NO	REV	
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX						10379-501				A
		CONCENTRICITY MACHINED DIA. .002 FIM										
		MACHINE TOOL MISMATCH .003 MAX										
NEXT ASSY		USED ON										
APPLICATION		THIRD ANGLE PROJECTION										
								SCALE 1:1				SHEET 1 OF 1

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