
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"



WERLATONE

Model C5070

Connectorized Directional Couplers

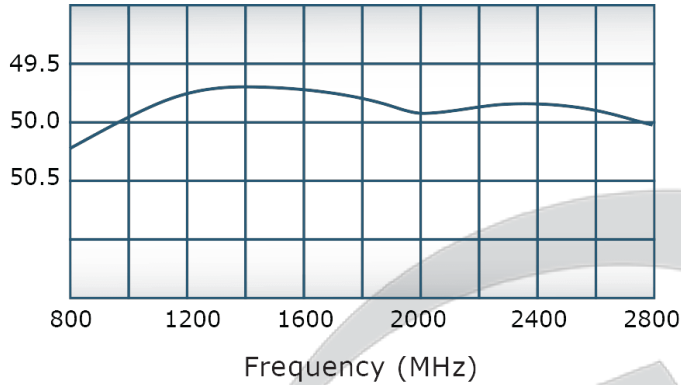


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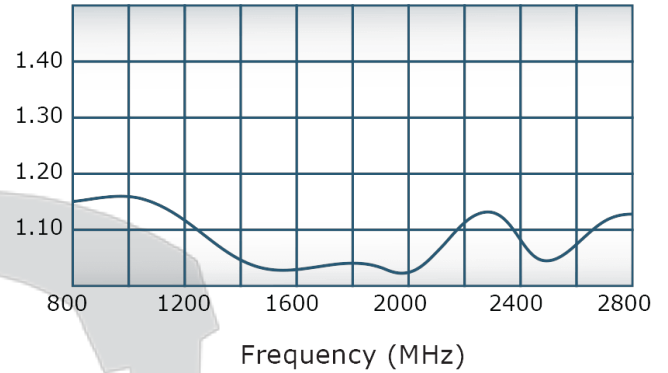
C5070

Performance Data (Specifications subject to change without notice):

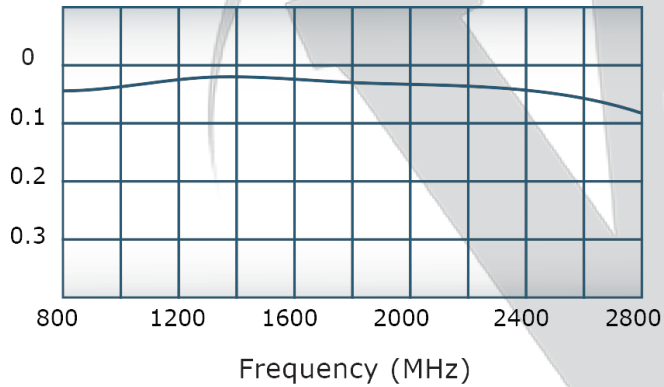
Coupling:



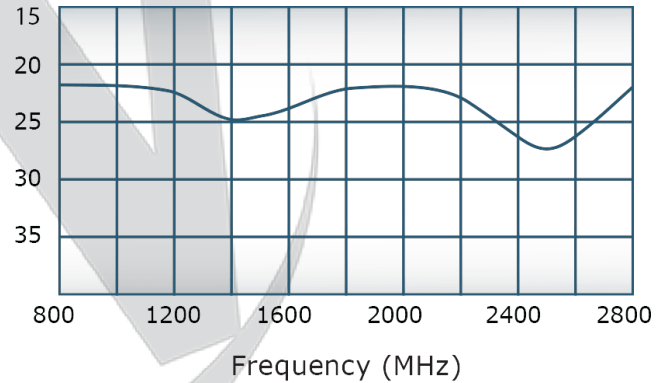
VSWR:



Insertion Loss:



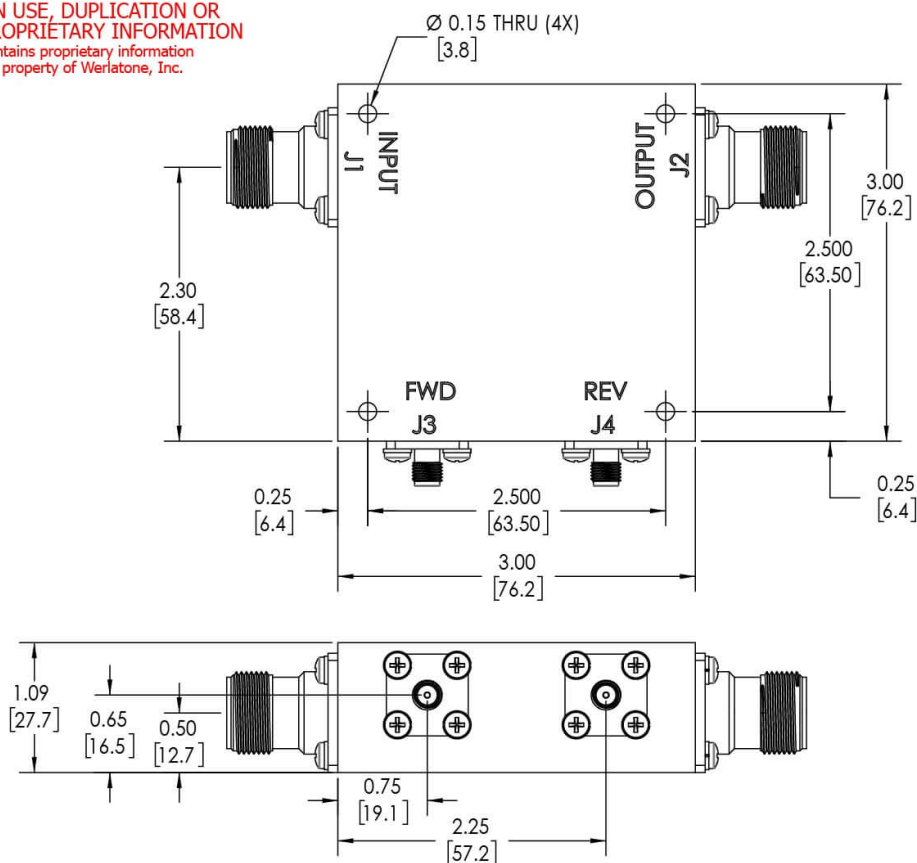
Directivity:



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

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

NOTES: UNLESS OTHERWISE SPECIFIED

- 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		 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTEREST DRAWING 14W-MB-STD-100		SD		2/11/2019					
		DIMENSIONS PER ASME Y14.5-2009		CHK		DATE					
		MATHEMATICAL INFO FOR REF ONLY		CS		2/11/2019		TITLE			
		DIMENSIONS ARE IN INCHES		ENGR		DATE					
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MJ		2/31/2000		OUTLINE			
		TOLERANCES:		MFR		DATE					
		ANGLES = $\pm 2^\circ$ 3 PL. = .005 [13] 2 PL. = .015 [30]		QA		DATE		SIZE B		CAGE CODE 10379-501	
		REMOVE ALL BURS AND SHARP EDGES R.01 MAX		RLSE		DATE		DWG NO 10379-501		REV A	
		CONCENTRICITY MACHINED DIA. .002 FIM						SCALE 1:1		SHEET 1 OF 1	
		MACHINE TONK HIGHTCH .003 MAX									
NEXT ASSY		USED ON									
APPLICATION		THIRD ANGLE PROJECTION 									

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