


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"

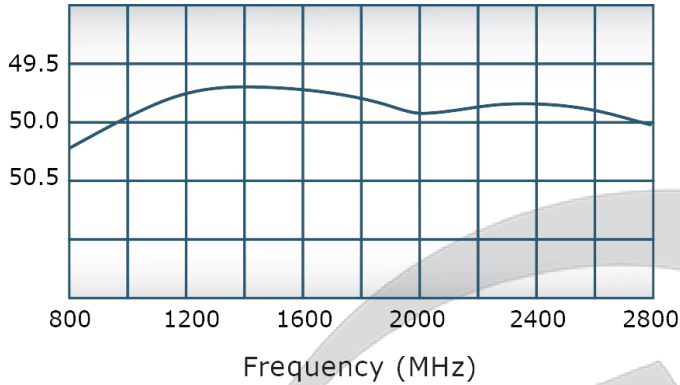


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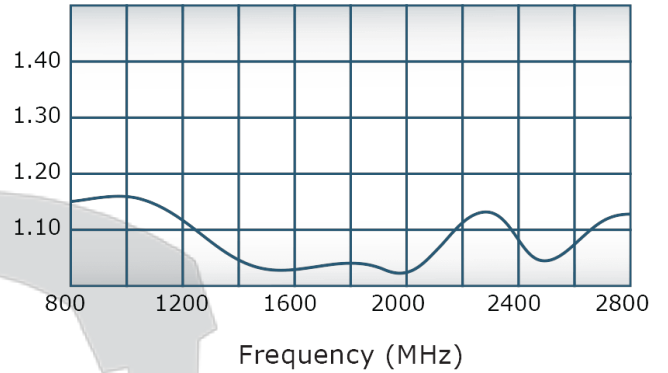
C5070

Performance Data (Specifications subject to change without notice):

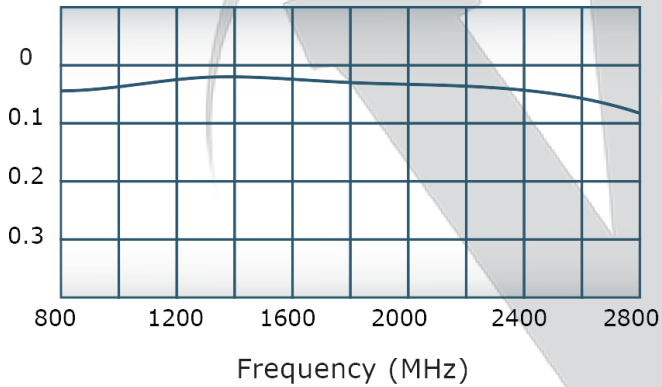
Coupling:



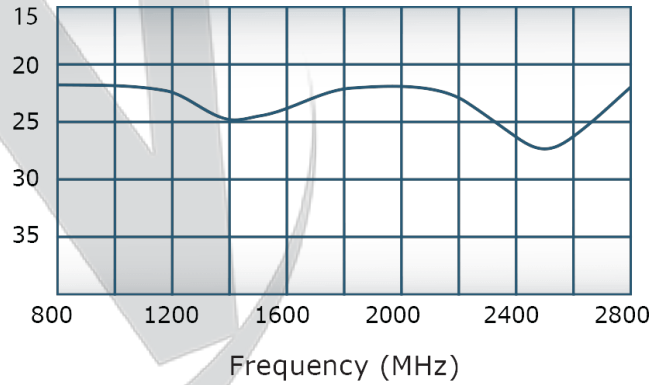
VSWR:



Insertion Loss:



Directivity:

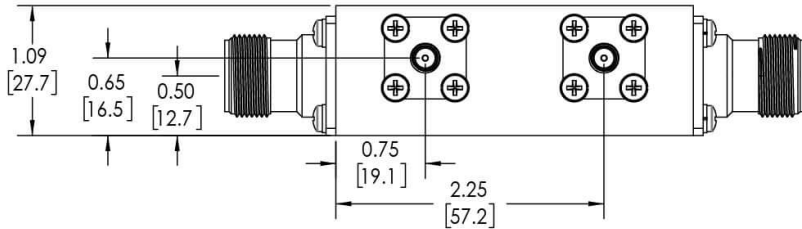
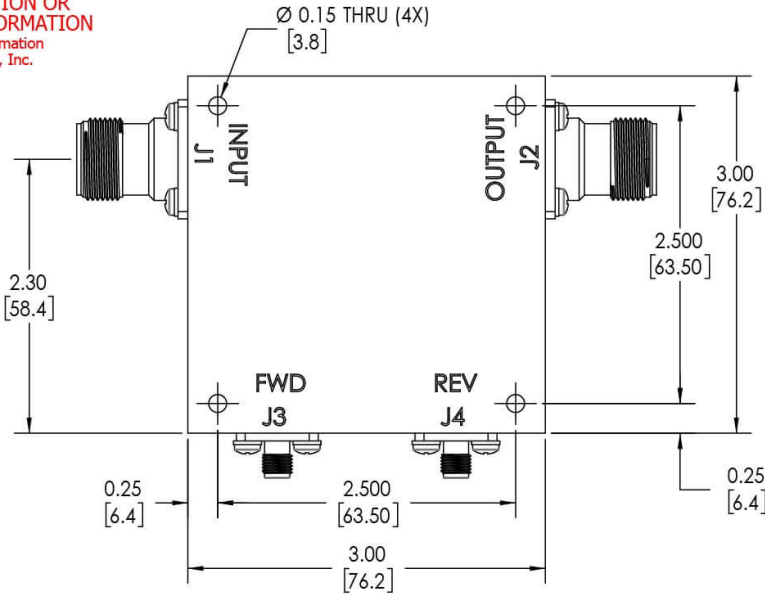


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Werlatone, Inc.

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

- 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

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

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