
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"

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

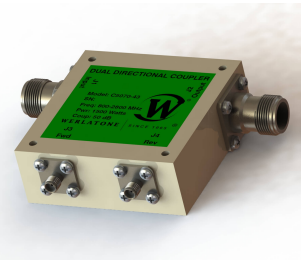
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C5070

Connectorized Directional Couplers

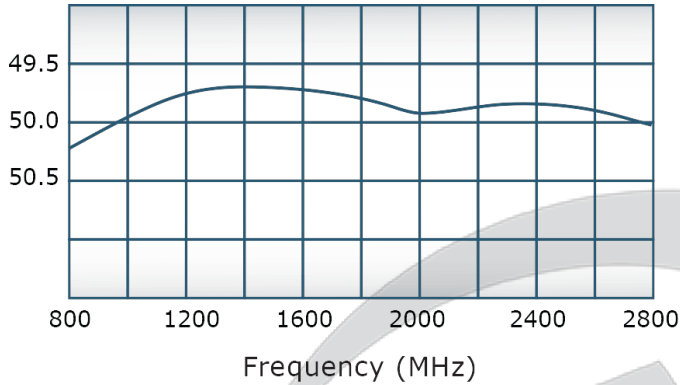


PRODUCT DATA SHEET

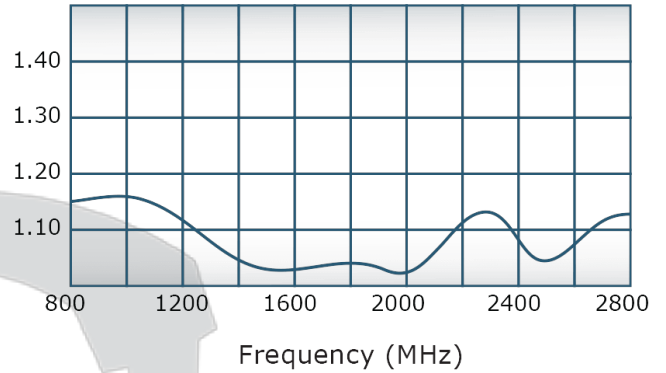
C5070

Performance Data (Specifications subject to change without notice):

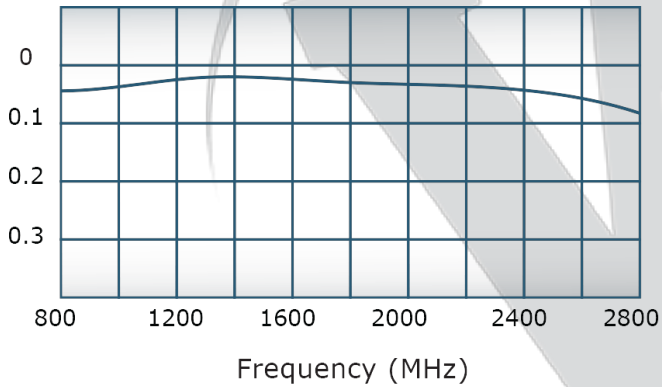
Coupling:



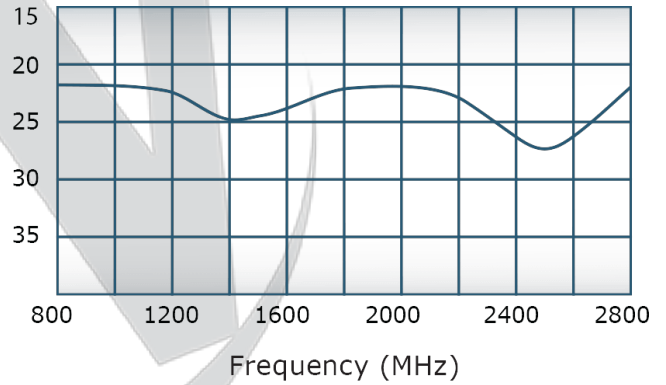
VSWR:



Insertion Loss:



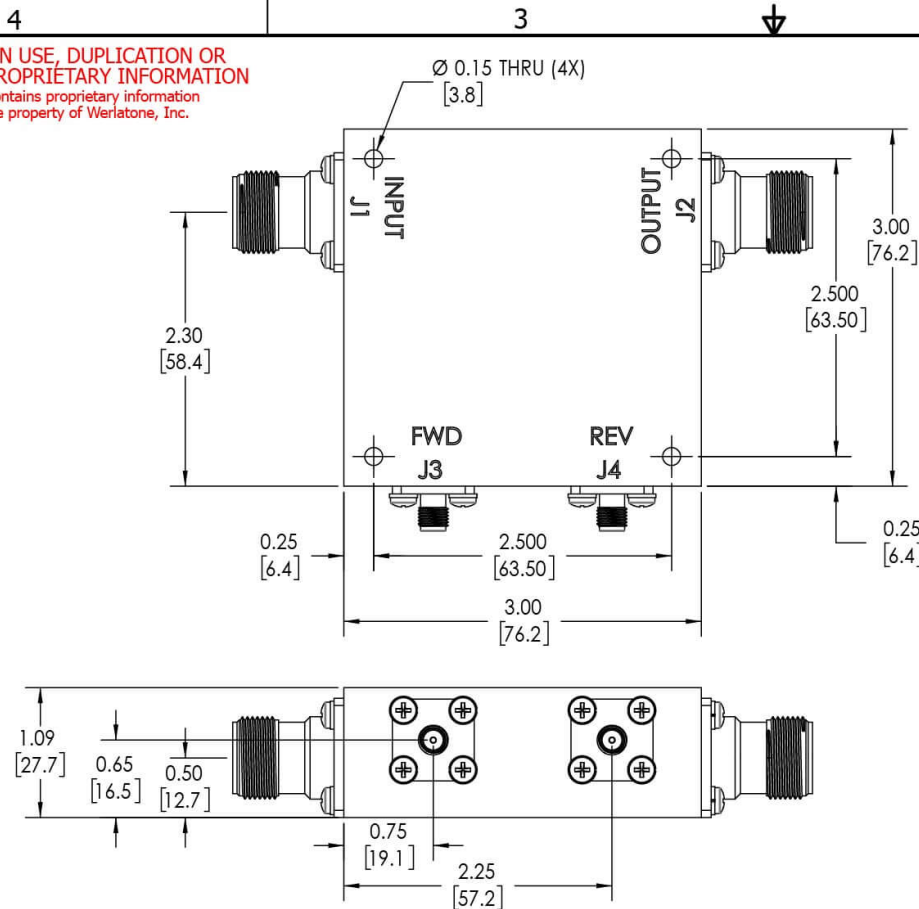
Directivity:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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



RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION
This document contains proprietary information which is the sole property of Werlatone, Inc.



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

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com