

PRODUCT DATA SHEET

C6070

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: 1.5 - 30 MHz
Power: 2500 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.1 dB Max.
Flatness: ± 0.25 dB Max.
VSWR (ML): 1.05:1 Max.
Directivity: 25 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: 6.46 x 2.52 x 1.2"

Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6070-10	N Female	N Female	N Female	N Female
C6070-12	N Female	N Female	SMA	SMA
C6070-13	N Female	N Female	BNC	BNC
C6070-20	7/16 Female	7/16 Female	N Female	N Female
C6070-22	7/16 Female	7/16 Female	SMA	SMA
C6070-23	7/16 Female	7/16 Female	BNC	BNC

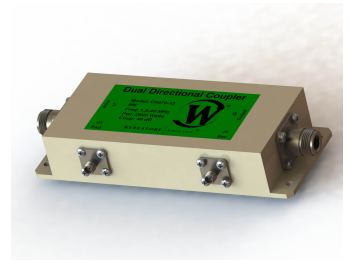
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



WERLATONE

Model C6070

Connectorized Directional Couplers

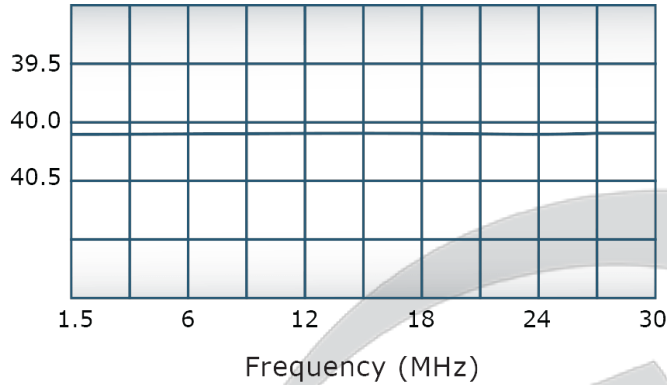


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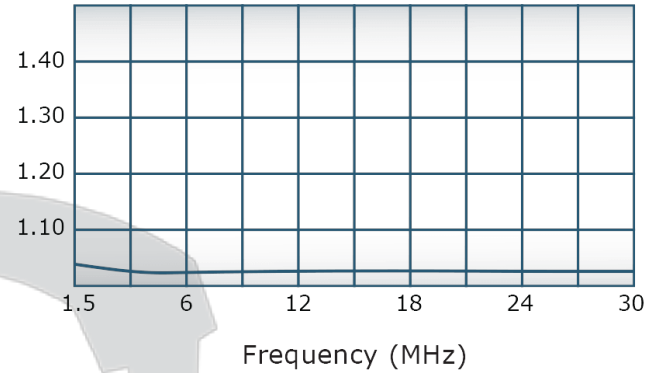
C6070

Performance Data (Specifications subject to change without notice):

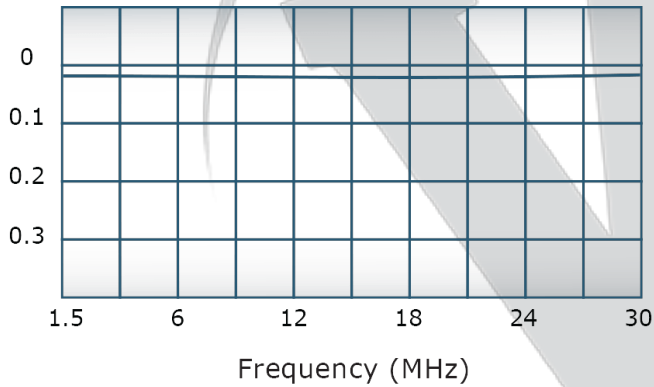
Coupling:



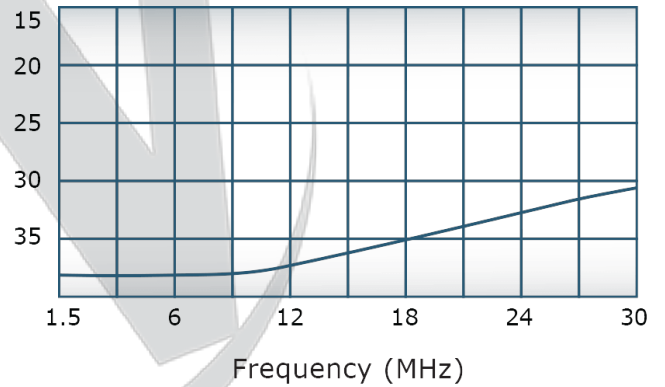
VSWR:



Insertion Loss:



Directivity:



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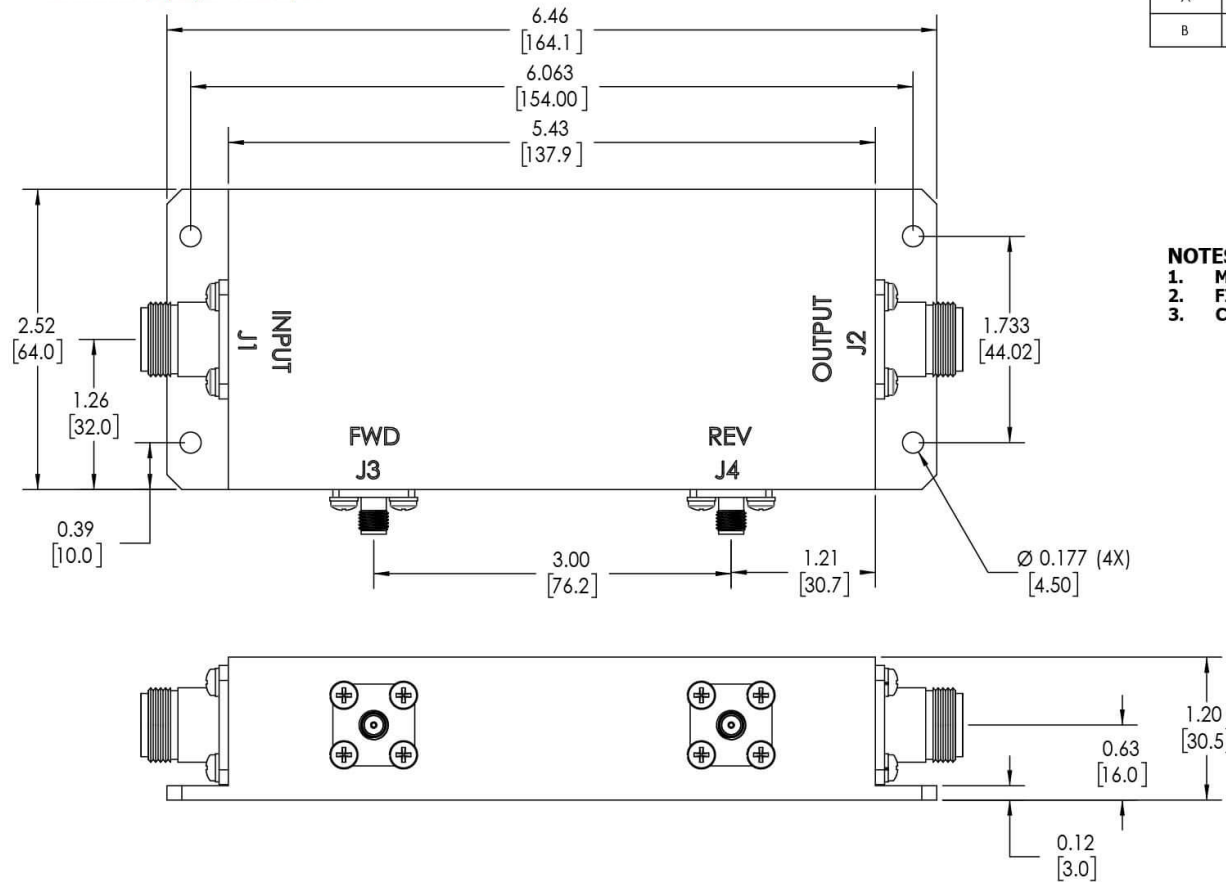
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 1968	3/7/01	BW
B	ECN 9696	3/25/19	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: N 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		SD	3/25/2019					
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE				
		PARENTHESES FOR REF ONLY		CS	3/25/2019					
		DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE				
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE					
		TOLERANCES:		QA	DATE	SIZE		CAGE CODE	DWG NO	REV
		ANGLES ± 2°		RLSE	DATE	SCALE		10194-500		B
		3 PL ± .005 [.13]		THIRD ANGLE PROJECTION 						
		2 PL ± .015 [.38]								
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		APPLICATION						
		CONCENTRICITY MACHINED DIA. .002 FIM								
		MACHINE TOOL MISMATCH .003 MAX		NEXT ASSY USED ON						
				SHEET 1 OF 1						

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