

PRODUCT DATA SHEET

C5279

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: 500 - 1000 MHz
Power: 50 W CW
Coupling: 30 ± 1.0 dB Max.
Flatness: ± 0.3 dB Max.
Insertion Loss: 0.2 dB Max.
VSWR (ML): 1.20:1 Max.
Directivity: 25 dB Min.

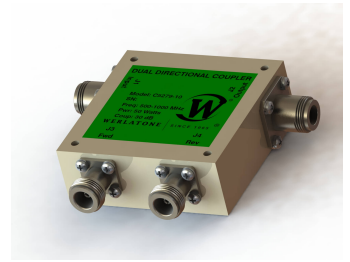
Mechanical Specifications:

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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5279-10	N Female	N Female	N Female	N Female
C5279-12	N Female	N Female	SMA	SMA
C5279-13	N Female	N Female	BNC	BNC
C5279-102	SMA	SMA	SMA	SMA

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.

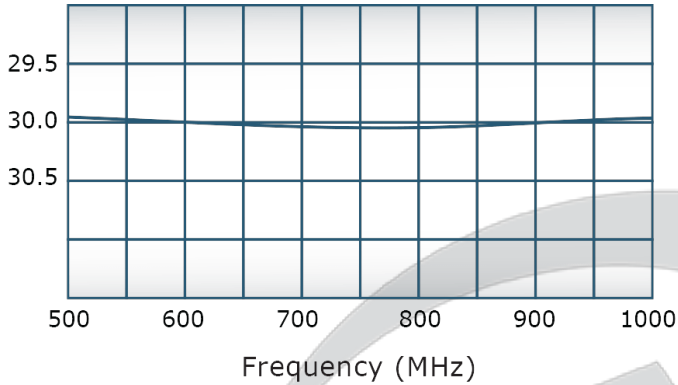


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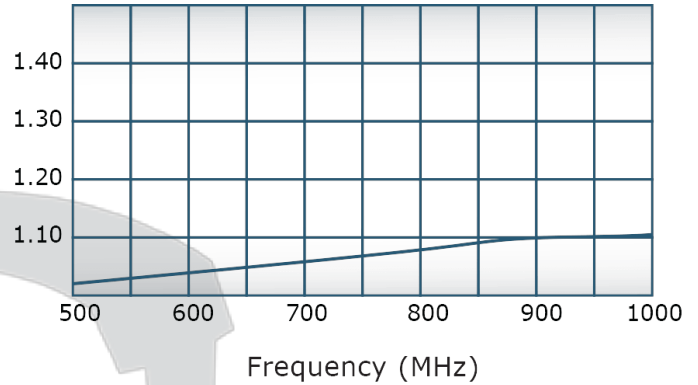
C5279

Performance Data (Specifications subject to change without notice):

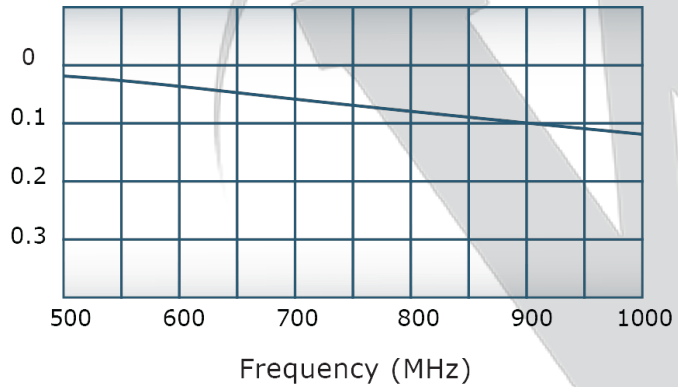
Coupling:



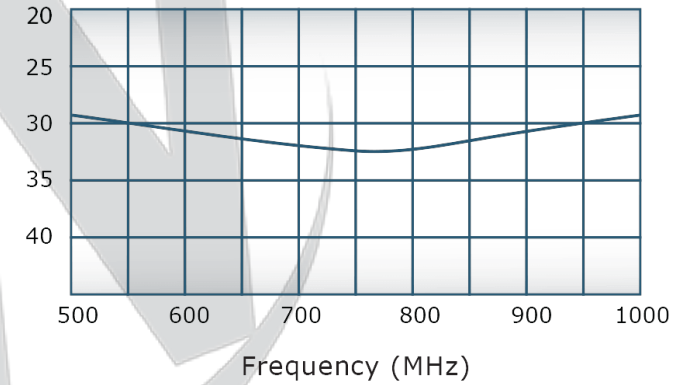
VSWR:



Insertion Loss:



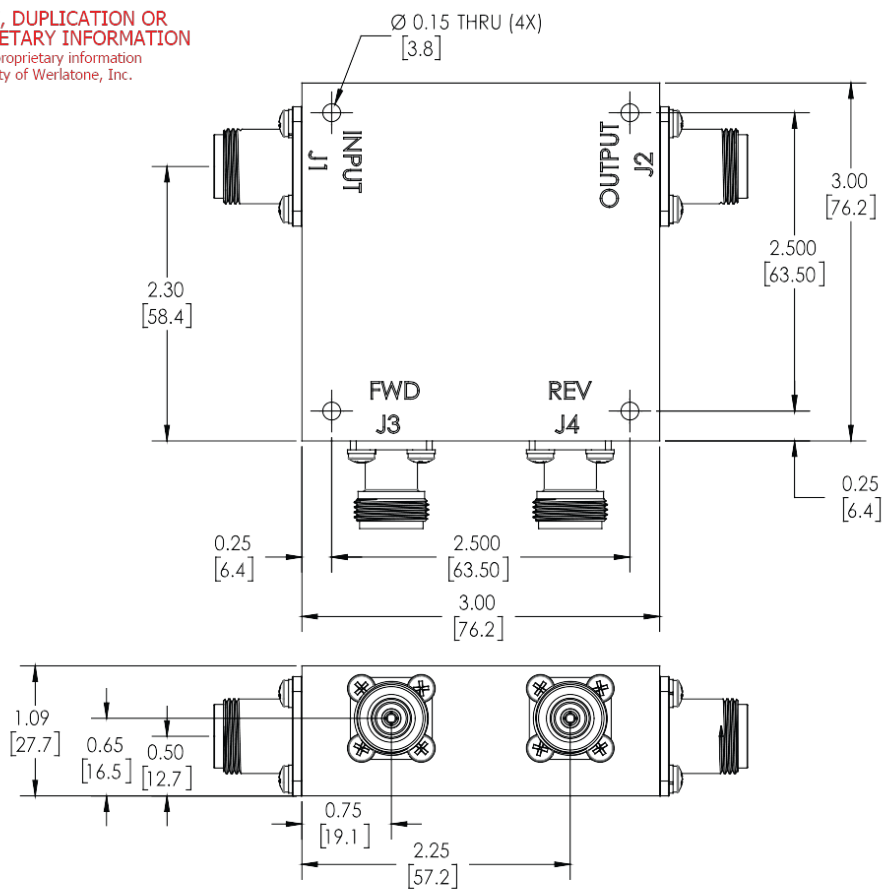
Directivity:



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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)

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12568		
NEXT ASSY	USED ON	• INTERPRET DRAWING AS PER MIL-STD-100 • DIMENSIONING PER ASME Y14.5-2009 • DIMENSIONAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: - ANGLES ± .2° 3 PL ± .005 [13] 2 PL ± .003 [38] • REMOVE ALL MARKS AND SHARP EDGES R.01 MAX • CONDUCTIVITY MACHINED SUR. 402 FPM • MACHINE TOOL, REWORKING 302 MAX		RH	7/5/2001		OUTLINE SIZE CAGE CODE DWG NO 10379-505	R#	OF
		CHK	DATE	TITLE					
		BNGR	7/5/2001						
				MJ					
				QA	DATE				
APPLICATION		THIRD ANGLE PROJECTION 		RLSE	DATE	SCALE	SHEET 1 OF 1		
						1:1			

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