

## 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:  $30 \pm 1.0$  dB Max.  
Flatness:  $\pm 0.3$  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

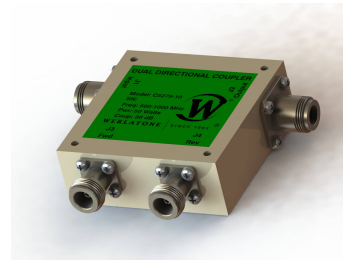
**Werlatone®** Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into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



# WERLATONE

Model C5279

Connectorized Directional Couplers

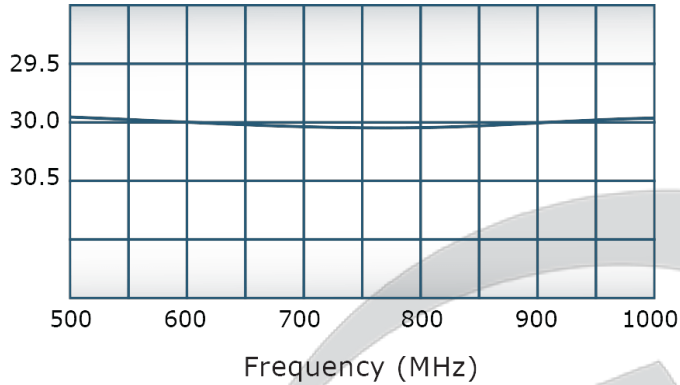


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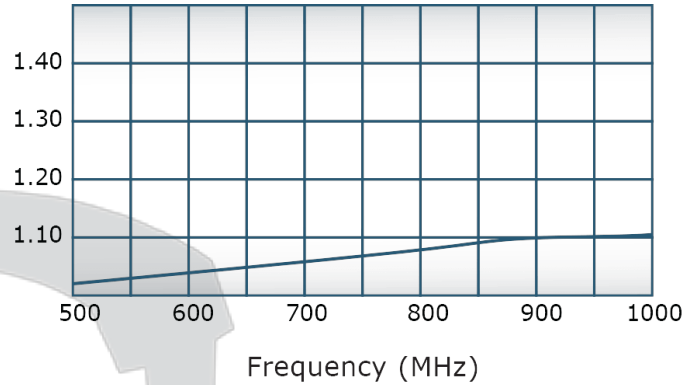
C5279

### Performance Data (Specifications subject to change without notice):

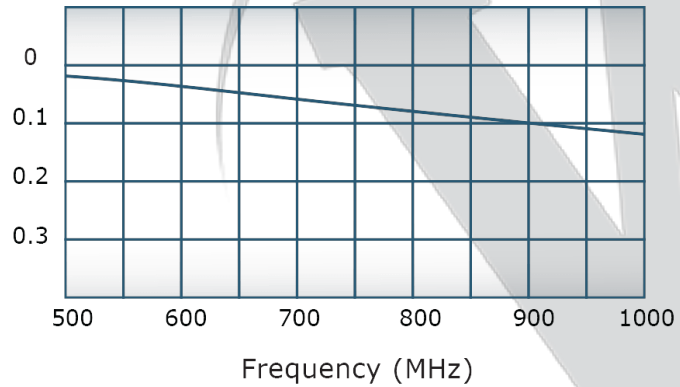
Coupling:



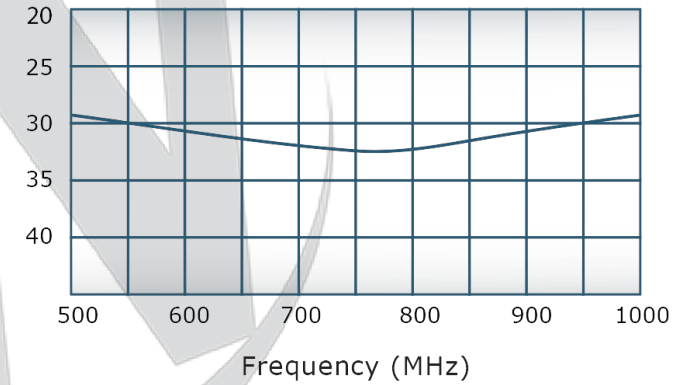
VSWR:



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**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL\_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

		UNLESS OTHERWISE SPECIFIED		DWGN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd	
		• INTERPRET DRAWING JAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHETICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 3 PL. ± .005 [1.3] 2 PL. ± .015 [3.8] • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX • CONCENTRICITY MACHINED DIA: .002 FIM • MACHINE TOOL MISMATCH: .003 MAX		RH	7/5/2001			Patterson, NY 12563	
				CHK	DATE	TITLE			
				ENGR	DATE	OUTLINE			
				MJ	7/5/2001				
				MFR	DATE	B		CAGE CODE	DWG NO
				QA	DATE	10379-505		REV	A
				ELSE	DATE	SCALE		1:1	
NEXT ASSY		USED ON				SHEET 1		OF 1	
APPLICATION		THIRD ANGLE PROJECTION							

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