

PRODUCT DATA SHEET

C10270

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: 1000 - 2000 MHz
Power: 5000 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.5 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: 6" Line Section

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10270-81	1 5/8" EIA	1 5/8" EIA	N Female	N Female
C10270-83	1 5/8" EIA	1 5/8" EIA	SMA	SMA
C10270-84	1 5/8" EIA	1 5/8" EIA	BNC	BNC

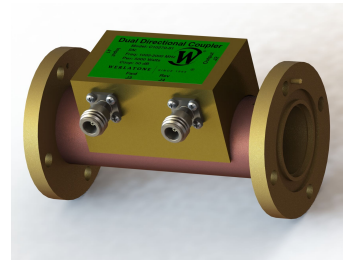
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C10270

Connectorized Directional Couplers

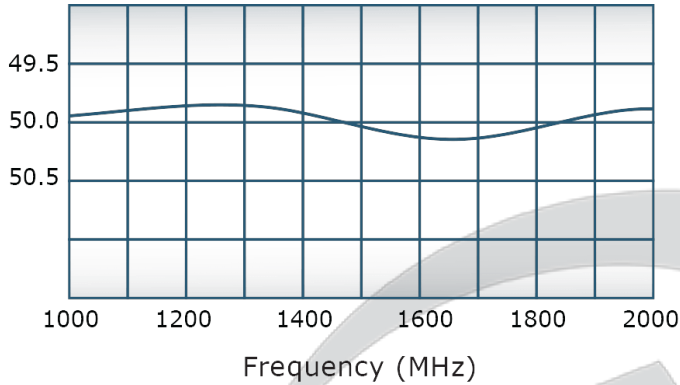


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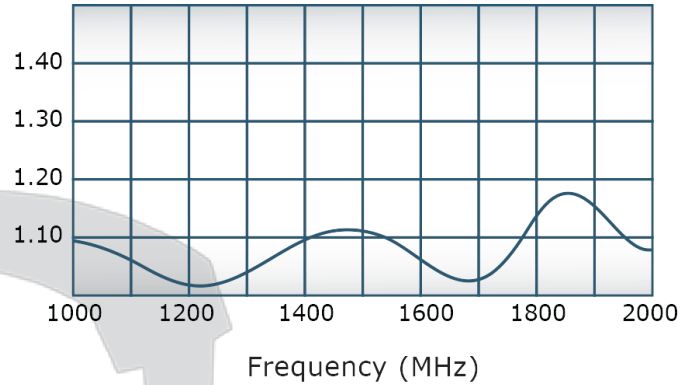
C10270

Performance Data (Specifications subject to change without notice):

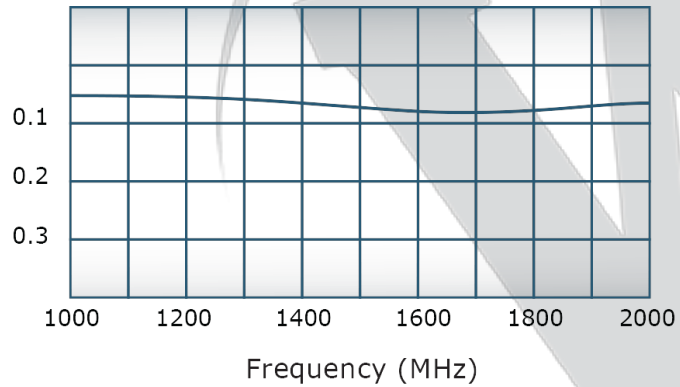
Coupling:



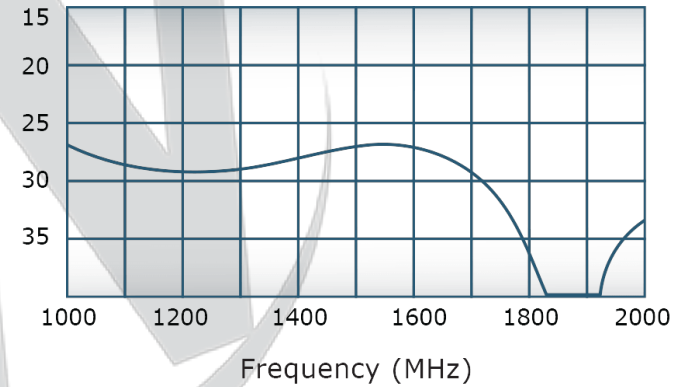
VSWR:



Insertion Loss:



Directivity:

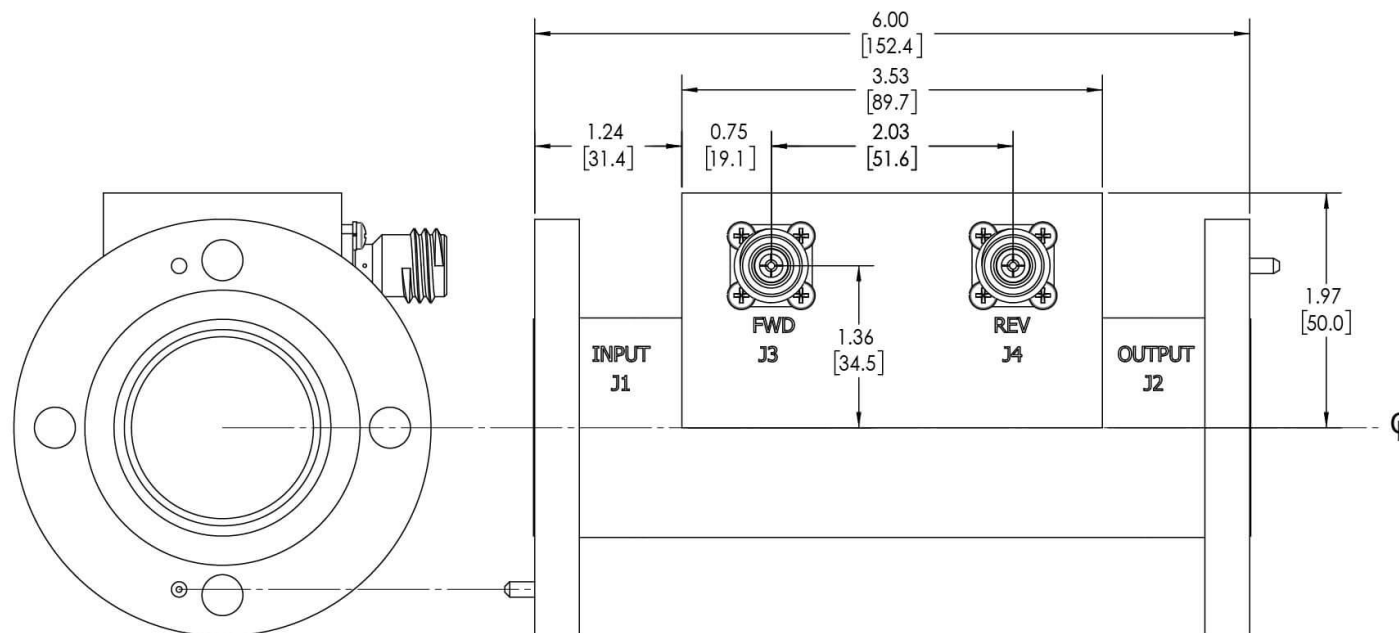


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/29/18	RB



NOTES:
1. **CONNECTORS:**
J1, J2: 1 5/8 EIA STANDARD
J3, J4: N FEMALE

		UNLESS OTHERWISE SPECIFIED		DWN	DATE	 VERLATONE® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERNET DRAWING 1847 WIL-STD-108 DIMENSIONING PER ASME Y14.5-2009 PARALLELITY 2ND FOR REF ONLY DIMENSIONS ARE IN INCHES		SD	2/11/2019		OUTLINE SIZE CAGE CODE DWG NO SCALE 1:1 10093-501	A
		TOLERANCES: ANGLES ± .1° 3 PL ± .005 [13] 2 PL ± .015 [30] REMOVE ALL BURRS AND SHARP EDGES 6.01 MAX CONCENTRICITY MACHINED DIA. AND FIN MACHINE TOOL RESPECTIVELY .001 MAX		CHR	DATE			
				CS	2/11/2019			
				ENGR	DATE			
				REFUR	DK	8/4/1992		
				QA	DATE			
				RLSE	DATE			
NEXT ASSY USED ON		THIRD ANGLE PROJECTION 						
APPLICATION								
		SHEET 1 OF 1						

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