
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:

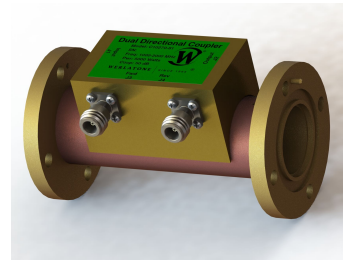
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10270-81	1 5/8" EIA	1 5/8" EIA	N Female	N Female
C10270-83	1 5/8" EIA	1 5/8" EIA	SMA	SMA
C10270-84	1 5/8" EIA	1 5/8" EIA	BNC	BNC

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.

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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

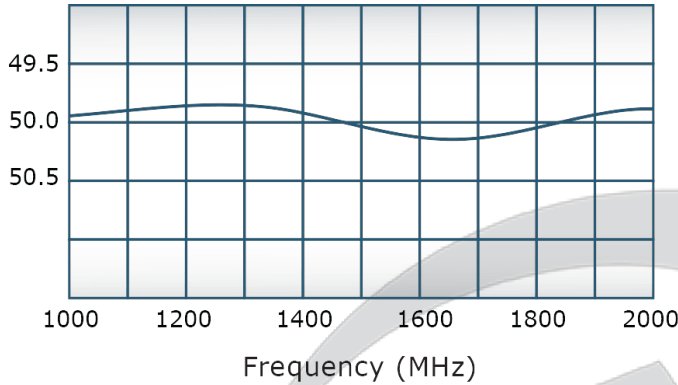


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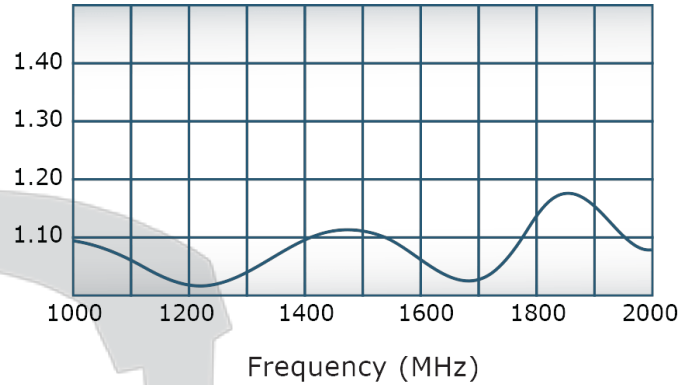
C10270

Performance Data (Specifications subject to change without notice):

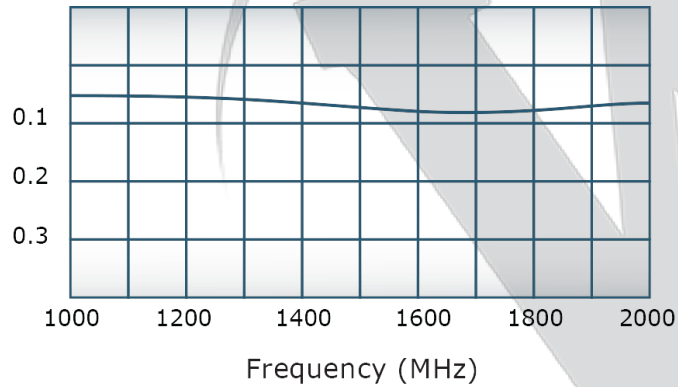
Coupling:



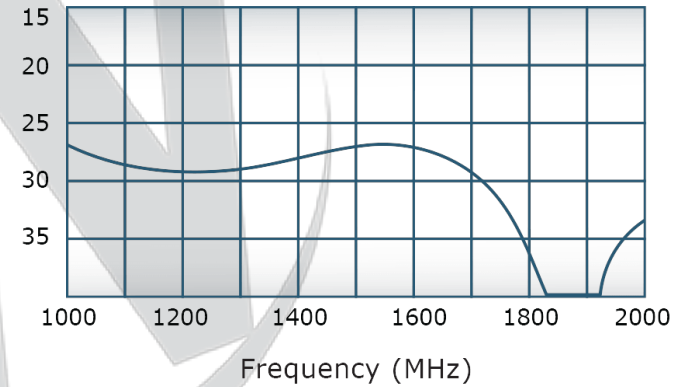
VSWR:



Insertion Loss:



Directivity:



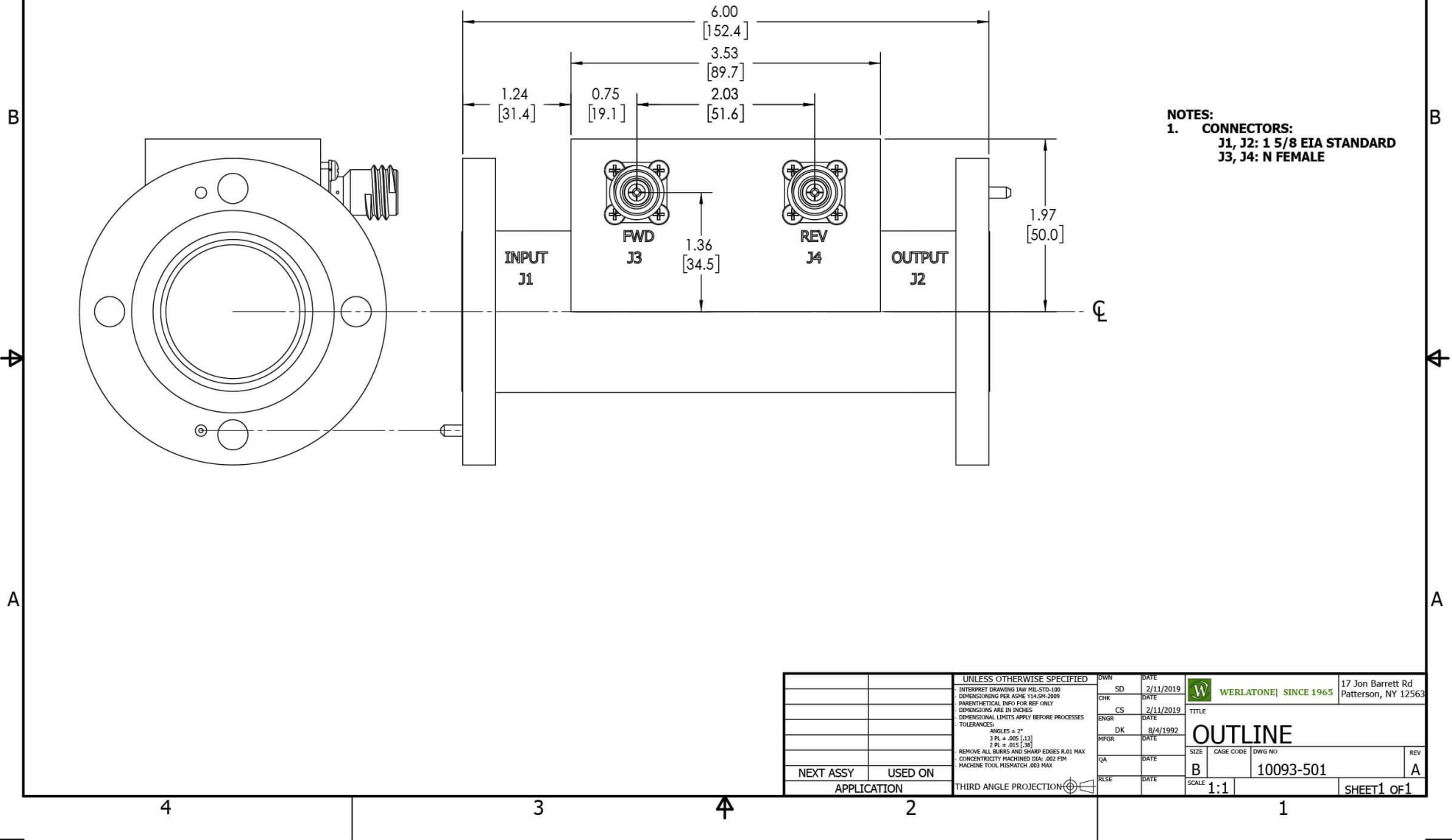
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/29/18	RB



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 <table border="0"> <tr> <td colspan="2">17 Jon Barrett Rd</td> </tr> <tr> <td colspan="2">Patterson, NY 12563</td> </tr> </table>	17 Jon Barrett Rd		Patterson, NY 12563	
17 Jon Barrett Rd								
Patterson, NY 12563								
INTERPRET DRAWING IAW MIL-STD-100		SD	2/11/2019					
DIMENSIONS FOR ASME Y14.5M-2009		CHK	DATE					
PARENTHEetical INFO FOR REF ONLY		CS	2/11/2019					
DIMENSIONS ARE IN INCHES		ENGR	DATE					
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		DK	8/4/1992					
TOLERANCES:		INFR	DATE					
ANGLES ± 2°		QA	DATE					
3 PL ± .005 (1.3)		RLSE	DATE					
2 PL ± .015 (1.38)								
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX								
CONCENTRICITY MACHINED DIA: .002 FIM								
MACHINE TOOL MISMATCH .003 MAX.								
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION						
APPLICATION		SIZE	CAGE CODE					
		B	10093-501					
		SCALE	1:1					
		DWG NO						
		REV	A					
		SHEET 1 OF 1						

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