

PRODUCT DATA SHEET

C10309

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 - 2500 MHz
Power: 2500 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.25 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.30:1 Max.
Directivity: 15 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 1.59"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10309-20	7/16 Female	7/16 Female	N Female	N Female
C10309-22	7/16 Female	7/16 Female	SMA	SMA
C10309-28	7/16 Male	7/16 Male	SMA	SMA
C10309-728	7/16 Male	7/16 Female	SMA	SMA

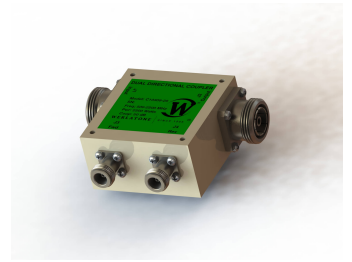
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C10309

Connectorized Directional Couplers

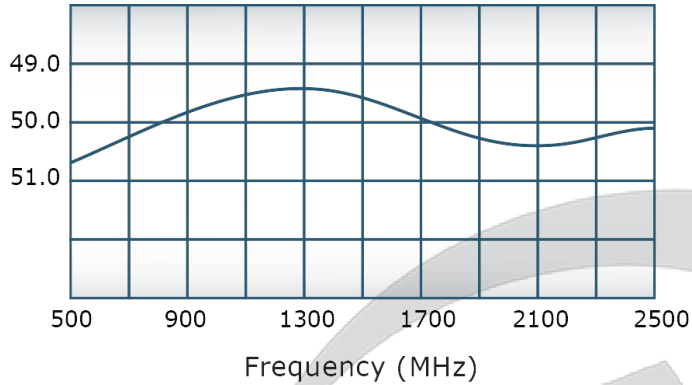


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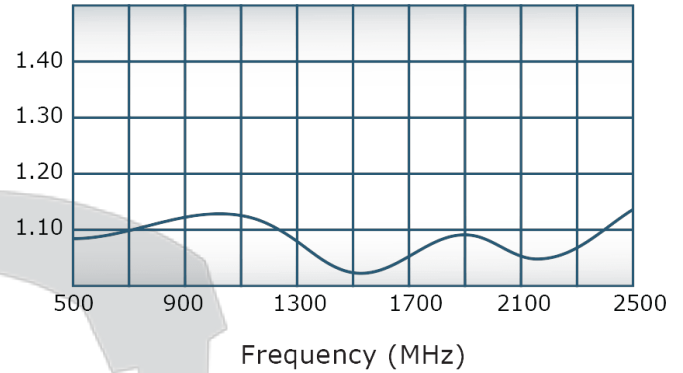
C10309

Performance Data (Specifications subject to change without notice):

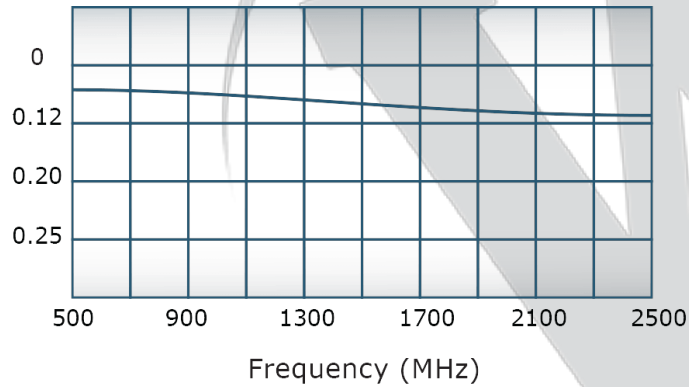
Coupling:



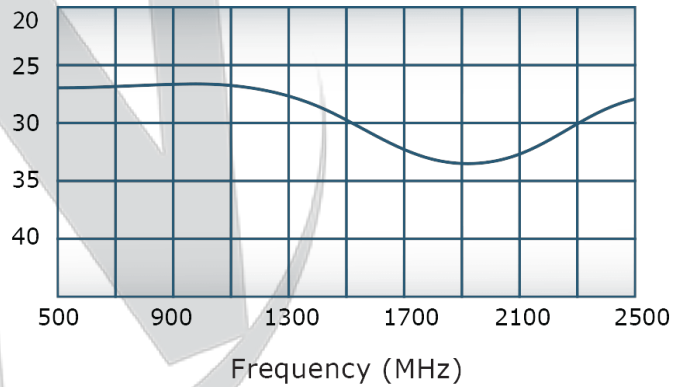
VSWR:



Insertion Loss:



Directivity:



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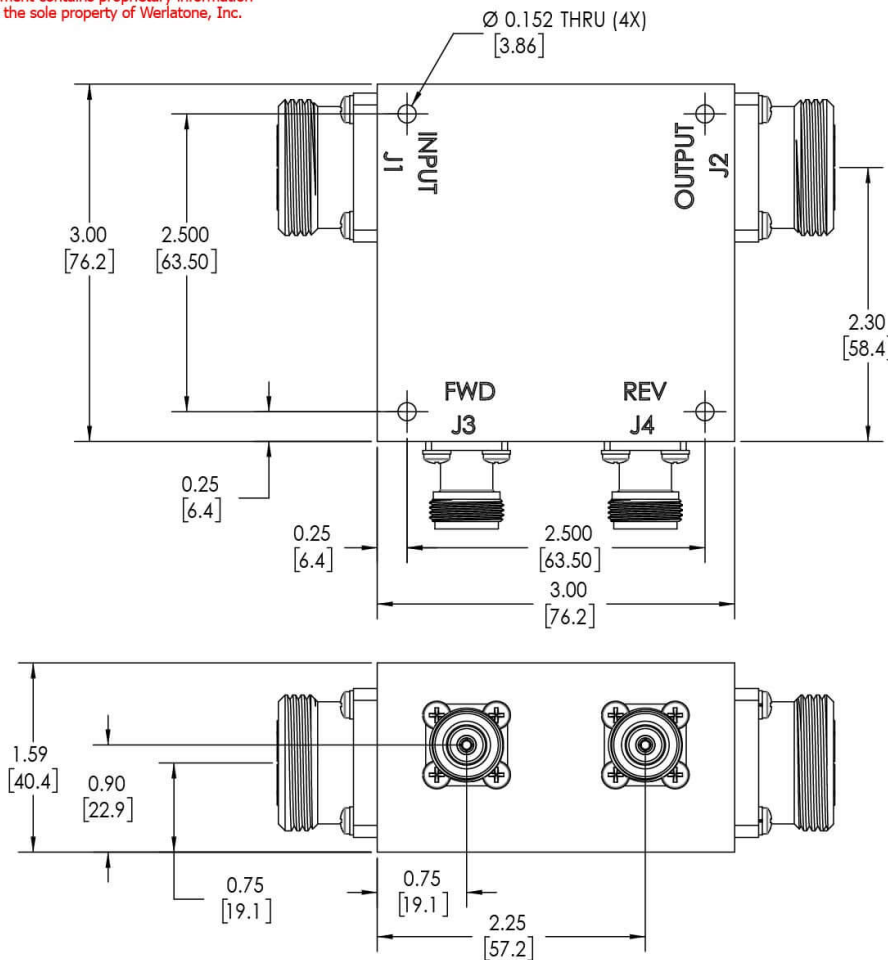
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/13/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F CLASS I TYPE 3 (YELLOW IRIDITE)**
- CONNECTORS:**
 J1, J2: 7/16 FEMALE
 J3, J4: N FEMALE



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	<div> WERLATONE SINCE 1965</div>	17 Jon Barrett Rd Patterson, NY 12563		
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	5/13/2019				
		DIMENSIONS FOR ASSEMBLY		CHK	DATE				
		PARENTHESES FOR REF ONLY		CS	5/13/2019		TITLE		
		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°				B		10443-501	A
		3 PL ± .005 [13]							
		2 PL ± .015 [38]				SCALE	1:1	SHEET 1 OF 1	
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		THIRD ANGLE PROJECTION					
		CONCENTRICITY MACHINED DIA. .002 FIM							
		MACHINE TOOL MISMATCH .003 MAX							
NEXT ASSY USED ON									
APPLICATION									

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