



PRODUCT DATA SHEET

C9639

4-Port Bi-Directional Coupler: Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 2500 - 6000 MHz
Power: 100 W CW
Coupling: 20 ± 1.0 dB Max.
Insertion Loss: 0.4 dB Max.
Flatness: ± 1.0 dB Max.
VSWR (ML): 1.25:1 Max.
Directivity: 18 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: 1.1 x 0.75 x 0.48"
Weight: 0.9 ounces / 26 grams

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9639-102	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 C9639

Connectorized Directional Couplers

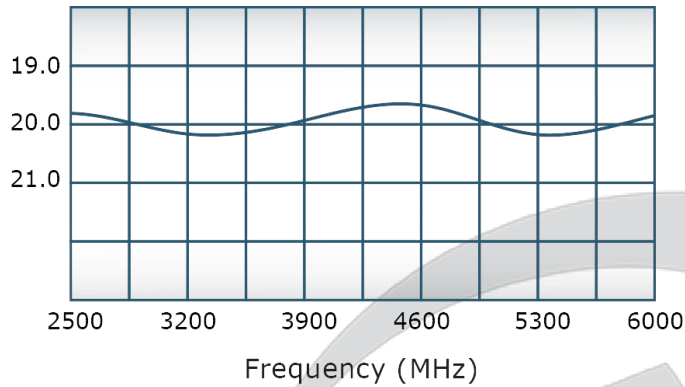


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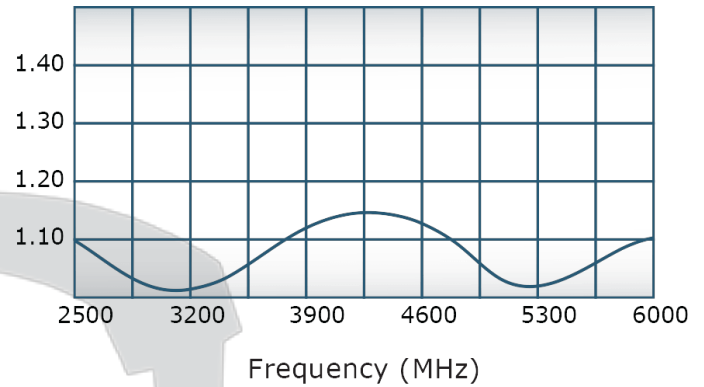
C9639

Performance Data (Specifications subject to change without notice):

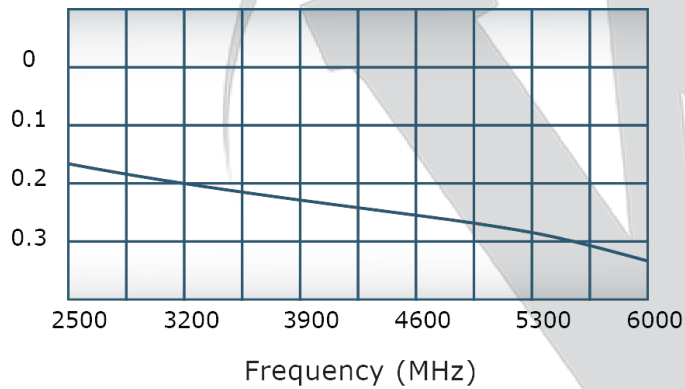
Coupling:



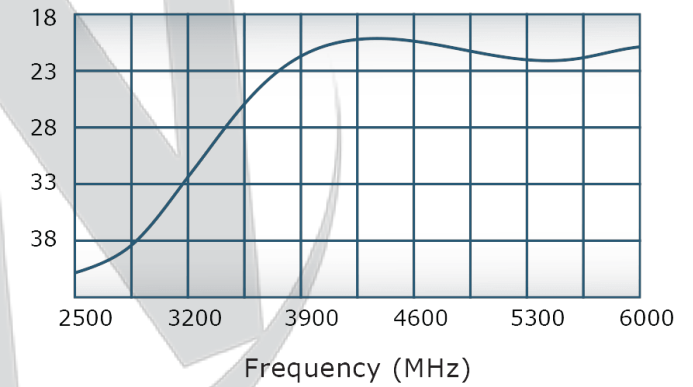
VSWR:



Insertion Loss:



Directivity:



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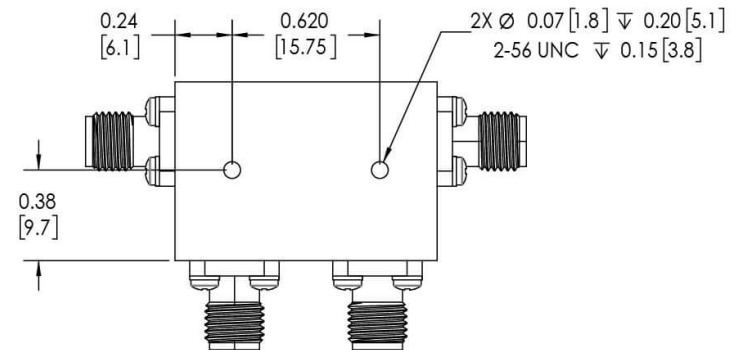
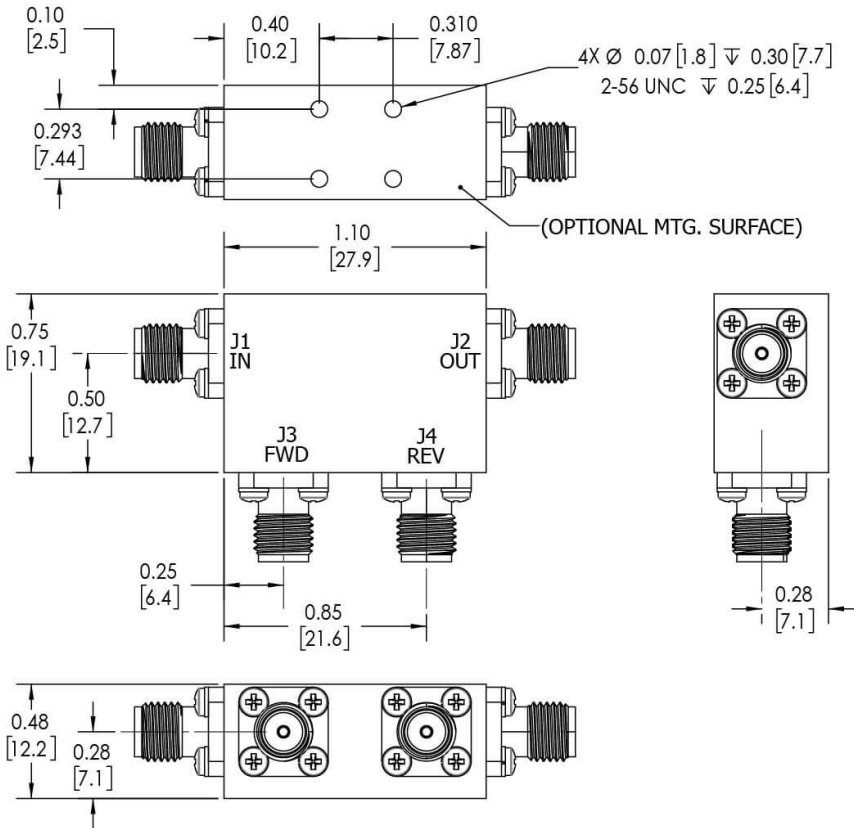
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	8/21/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS: J1-J4: SMA FEMALE**



UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	8/21/2019	 WERLATONE SINCE 1965	
DIMENSIONS FOR ASSEMBLY TO BE USED FOR REFERENCE ONLY		CHK	DATE		
DIMENSIONS ARE IN INCHES		CS	8/21/2019	OUTLINE	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		ENGR	DATE		
TOLERANCES:		INFR	DATE	SIZE CAGE CODE DWG NO B 20643-500	
ANGLES ± 2°		QA	DATE		
3 PL ± .005 [13]		RELSE	DATE	SCALE 2:1	
2 PL ± .015 [38]					
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				SHEET 1 OF 1	
CONCENTRICITY MACHINED DIA. .002 FIM					
MACHINE TOOL MISMATCH .003 MAX					
THIRD ANGLE PROJECTION					
NEXT ASSY USED ON APPLICATION					

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