



PRODUCT DATA SHEET

C8644

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: 1800 - 6100 MHz
Power: 60 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: 1.10 x 0.75 x 0.48"
Weight: 0.9 ounces / 26 grams

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8644-102	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 C8644

Connectorized Directional Couplers

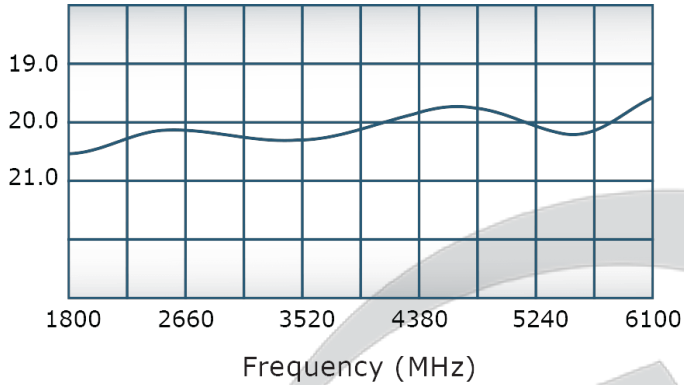


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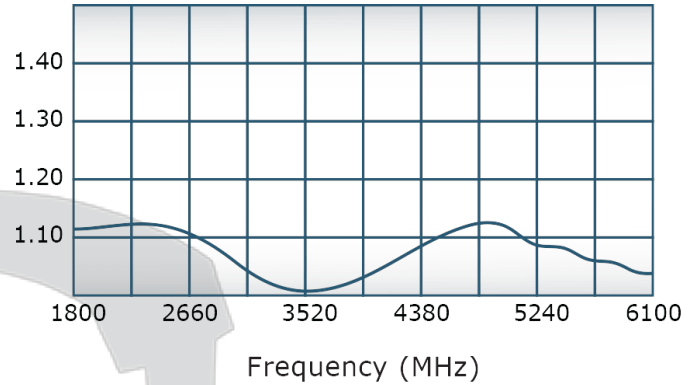
C8644

Performance Data (Specifications subject to change without notice):

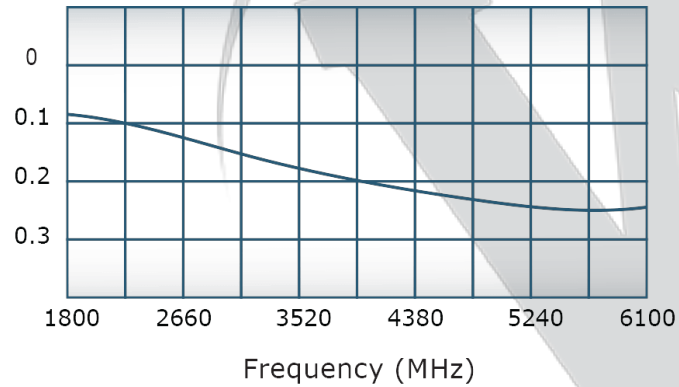
Coupling:



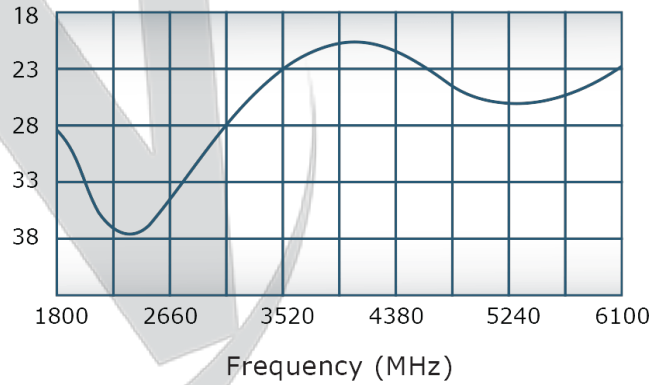
VSWR:



Insertion Loss:



Directivity:



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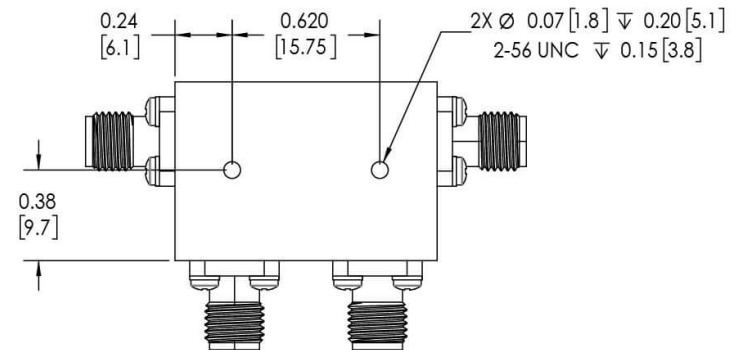
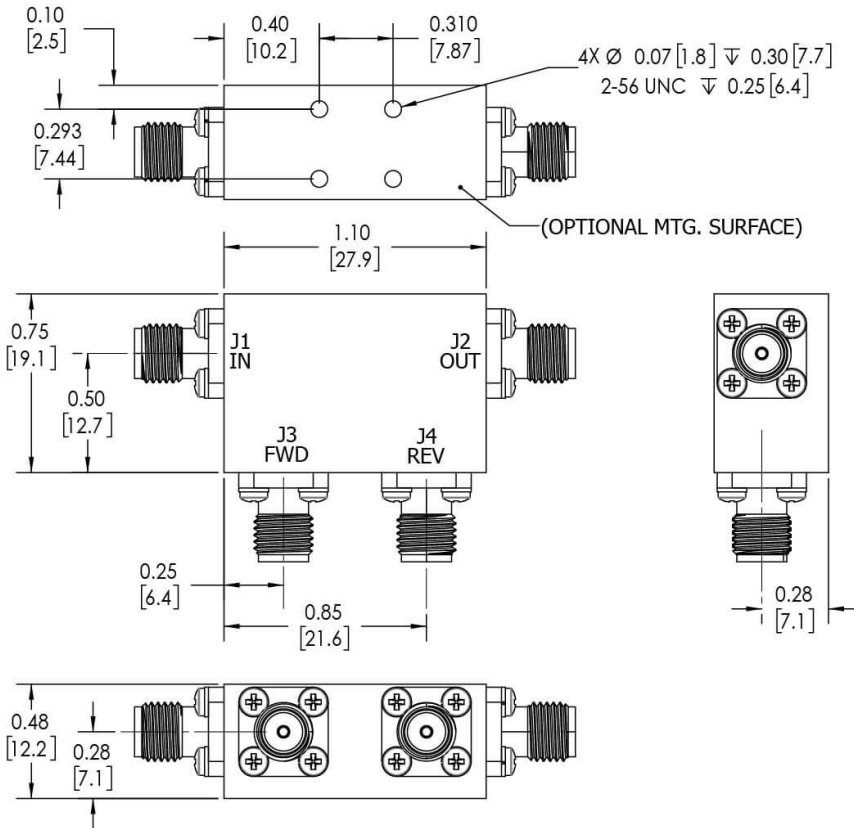
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	8/21/2019	RB

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

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