

PRODUCT DATA SHEET

C9271W

3-Port Uni-Directional Coupler: Consists of a main line and a coupled line. One end of the coupled line is internally terminated, while the other end serves as a coupled port. Ideal for sampling and monitoring power in one direction at a given time. It is necessary to physically reverse the orientation of the unit to change from a forward to a reverse power measurement.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 100 - 1000 MHz
Power: 100 W CW
Coupling: 10 ± 1.0 dB Max.
Insertion Loss: 0.5 dB Max.
Flatness: ± 1.0 dB Max.
VSWR (ML): 1.20:1 Max.
Directivity: 17 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: Watertight, 100% Condensing
Size: 7.05 x 3.03 x 1.2"
Weight: 2 lbs.

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C9271W-10	N Female	N Female	N Female
C9271W-12	N Female	N Female	SMA
C9271W-102	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.

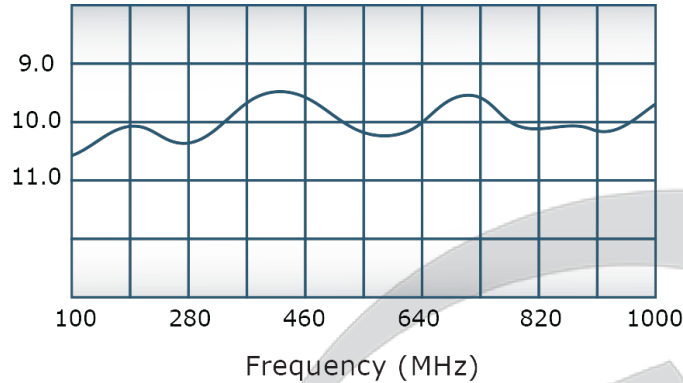


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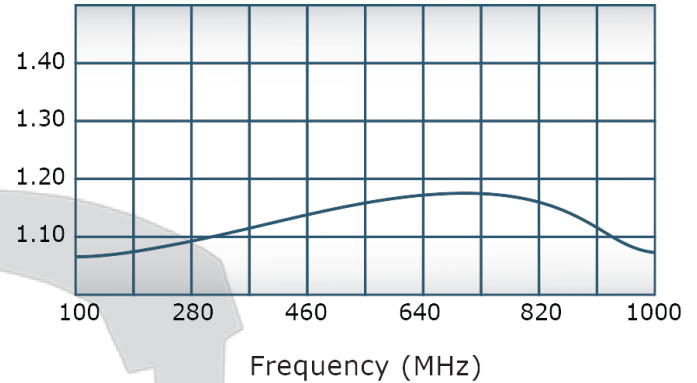
C9271W

Performance Data (Specifications subject to change without notice):

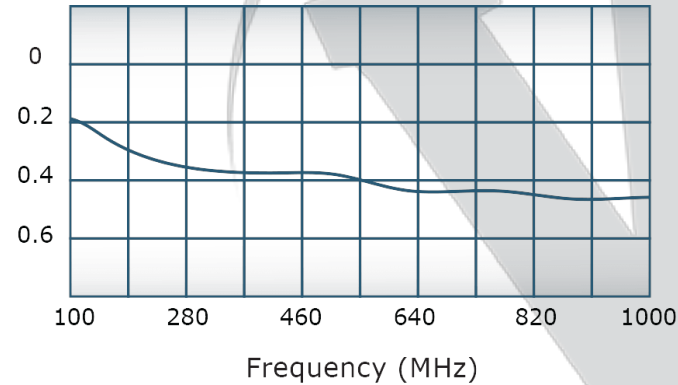
Coupling:



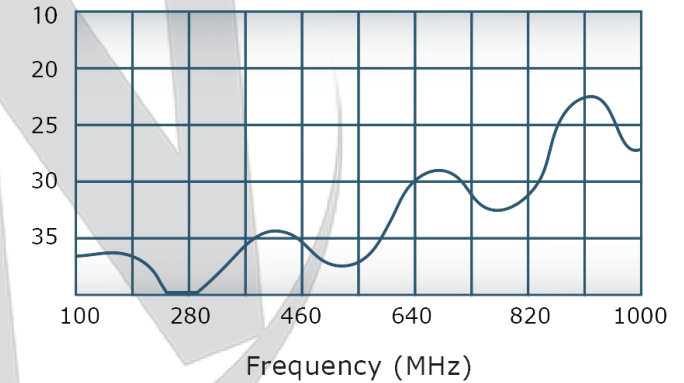
VSWR:



Insertion Loss:



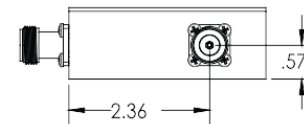
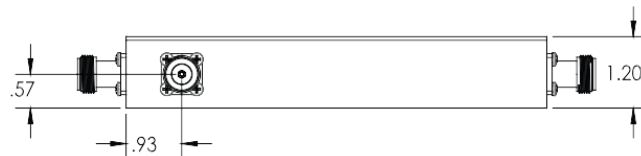
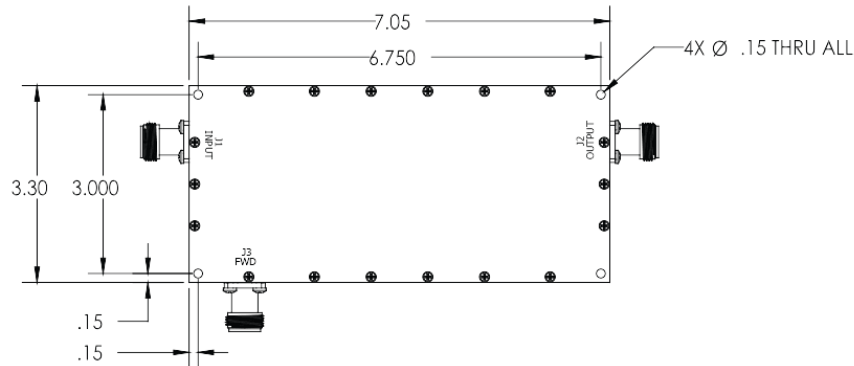
Directivity:



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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN: 5677	6/7/2012	SC

		UNLESS OTHERWISE SPECIFIED		DWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
		• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C		SC	6/7/2012				
		• CONFORM TO ASME Y14.5M-2009		CHK	DATE				
		• PARENTHETICAL INFO FOR REF ONLY		NH	6/7/2012				
		• DIMENSIONS ARE IN INCHES		ENGR	DATE				
		• DIMENSIONAL LIMITS APPLY BEFORE FINISHES		BW	6/7/2012				
		• TOLERANCES:		APPGR	DATE				
		ANGLES ± 2°		QA	DATE				
		3 PL ± .005				SIZE	CAGE CODE	DWG NO	REV
		2 PL ± .015				B	28812	20865-500	A
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX							
		• CONCENTRICITY MACHINED DIA. .005 FDM							
		• MACHINE TOOL PREPARATION .005 FDM							
C9271W-10B									
NEXT ASSY		USED ON							
APPLICATION		THIRD ANGLE PROJECTION				SCALE		1:2	
								SHEET 1 OF 1	

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