

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.

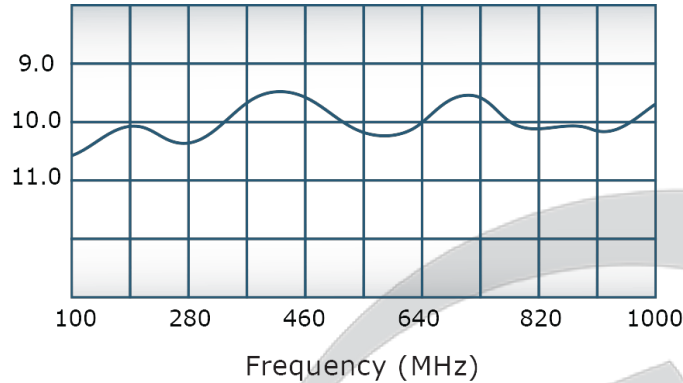


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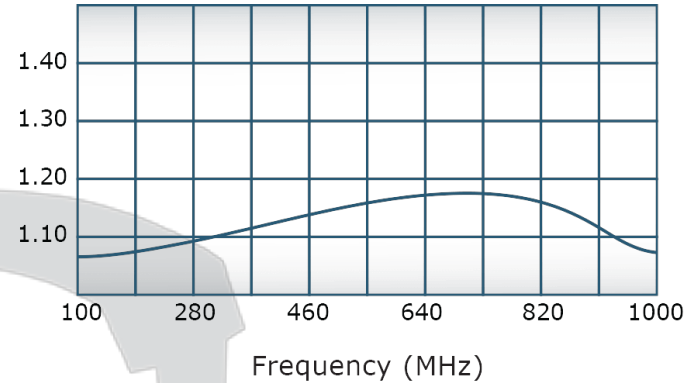
C9271W

Performance Data (Specifications subject to change without notice):

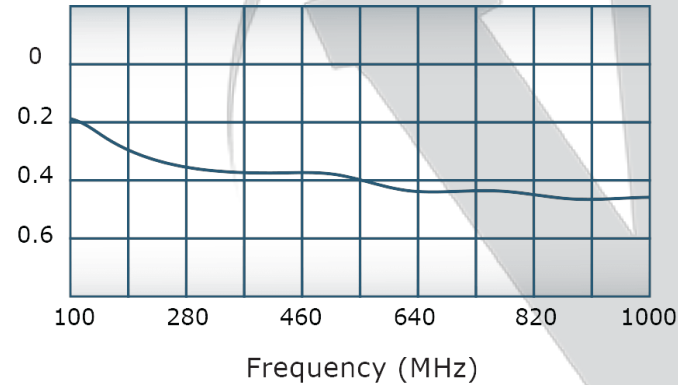
Coupling:



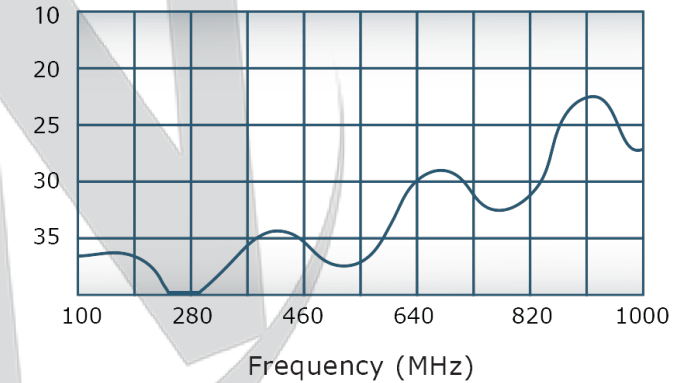
VSWR:



Insertion Loss:



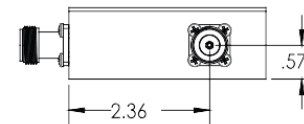
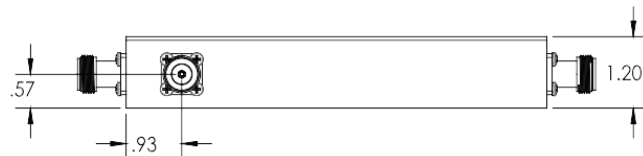
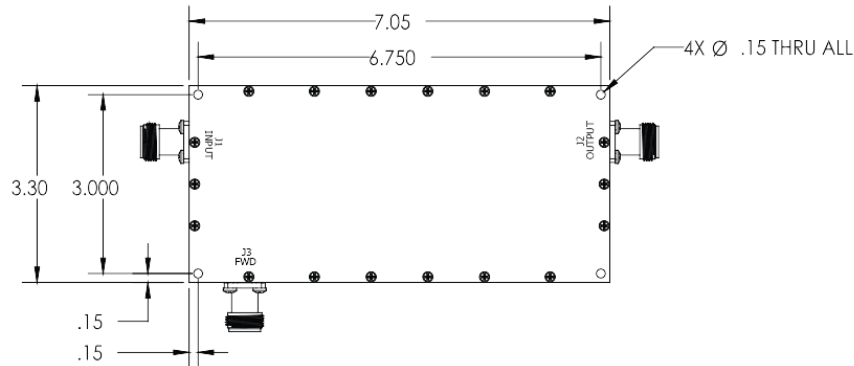
Directivity:





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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	TITLE C9271W-10B				
		• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C • CONFORM TO ASME Y14.5M-2009 • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE FINISHES • TOLERANCES: ANGLES ± .2° 3 PL ± .005 2 PL ± .015 • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX • CONCENTRICITY MACHINED DIA. .002 FDM • MACHINE TOOL PREPARATION .001 FDM		SC	6/7/2012			SIZE	CAGE CODE	DWG NO	REV
				CHK	DATE			B	28812	20865-500	A
				ENGR	DATE						
				SW	6/7/2012						
				APPGR	DATE						
				QA	DATE						
C9271W-10B											
NEXT ASSY USED ON											
APPLICATION		THIRD ANGLE PROJECTION				SCALE		1:2		SHEET 1 OF 1	

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