



Model C9271W

Connectorized Directional Couplers

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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

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
C9271W-10
C9271W-12
C9271W-102

Input (J1)
N Female
N Female
SMA

Output (J2)
N Female
N Female
SMA

Fwd (J3)
N 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.



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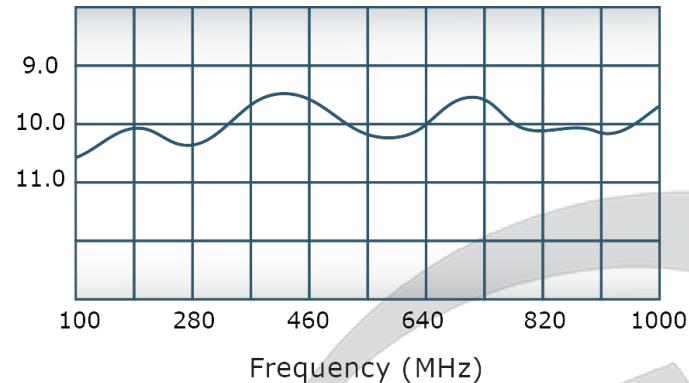
Connectorized Directional Couplers

PRODUCT DATA SHEET

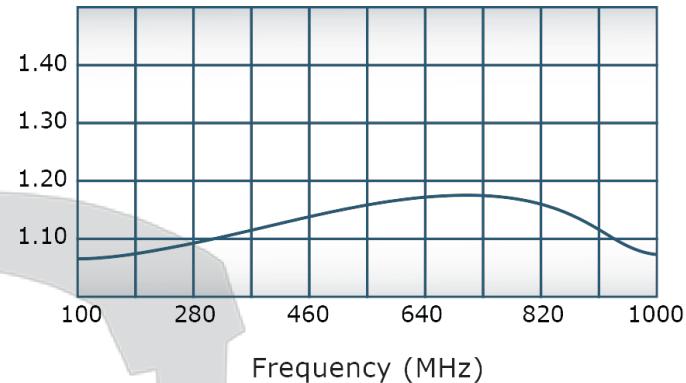
C9271W

Performance Data (Specifications subject to change without notice):

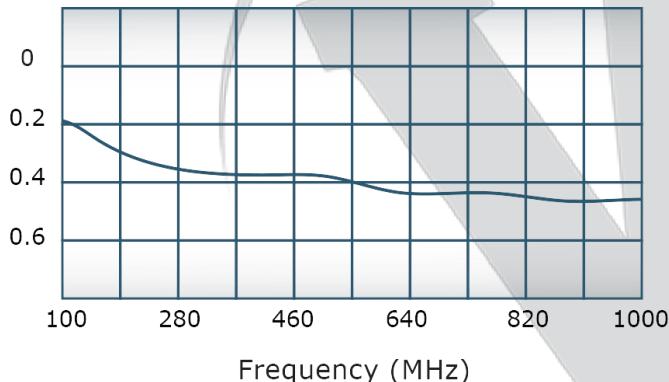
Coupling:



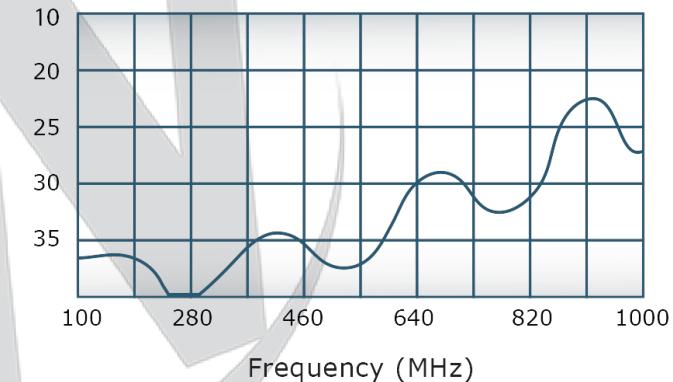
VSWR:



Insertion Loss:



Directivity:



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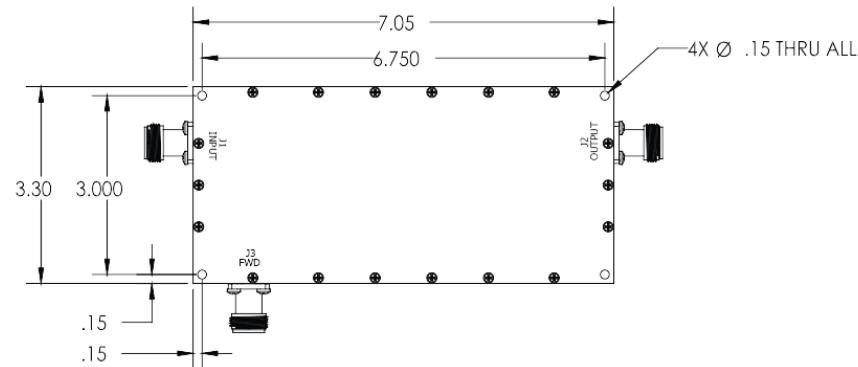
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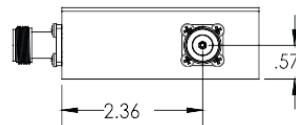
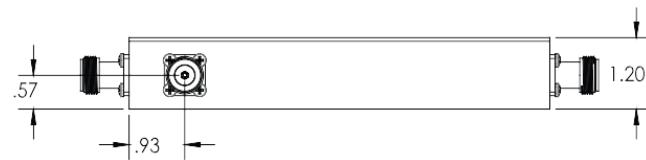
REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN: 5677	6/7/2012	SC

B

B



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		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATON SINCE 1965 TITLE	17 Jon Barrett Rd		
		• INTRINSIC DRAWING USE HB-STD-100		SC	6/7/2012				Patterson, NY 12563
		• CONSIDERATION FOR ASME Y14.5M-2009		CHNK	DATE				
		• PARENTHEtical INFO FOR REF ONLY		NH	6/7/2012				
		• DIMENSIONS ARE IN INCHES		ENGR	DATE				
		• CONVENTIONAL UNITS APPLY BEFORE PROCESSES		BW	6/7/2012				
		• TOLERANCES:		MFGR	DATE				
		ANGLES ± 2°							
		LINES ± 0.005							
		2 PLS ± 0.025							
		• REMOVE ALL BURRS AND SHARP EDGES R0.1 MAX							
		• CONCENTRICITY MACHINED COAL .002 MM							
		• MACHINE TOOL MACHINING .003 MAX							
C9271W-10B				QA	DATE	SIZE CAGE CODE DWG NO		REV	
NEXT ASSY		USED ON				B 28812 20865-500		A	
				RUSE	DATE	SCALE 4 : 1			

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