

**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.

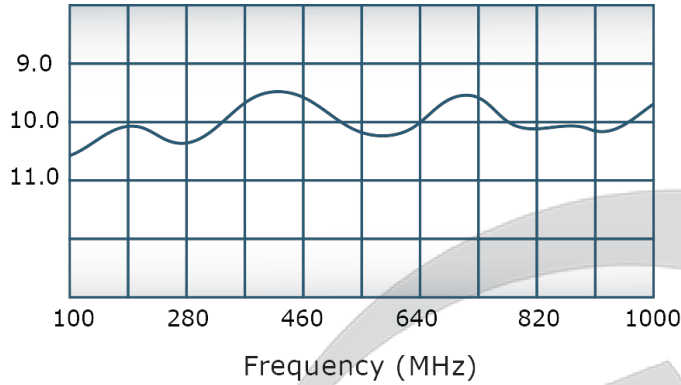
**Connector Configurations:**

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

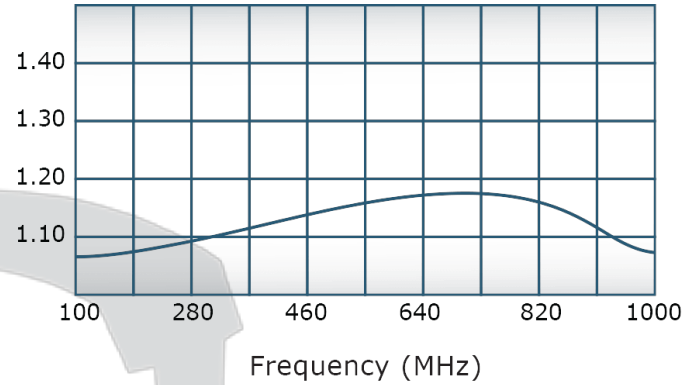
**Werlatone®** Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.

**Performance Data (Specifications subject to change without notice):**

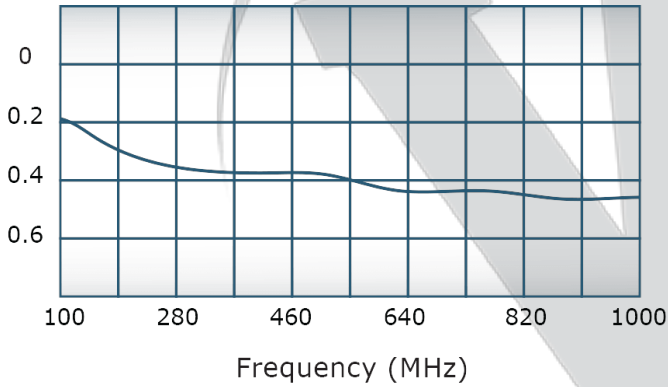
Coupling:



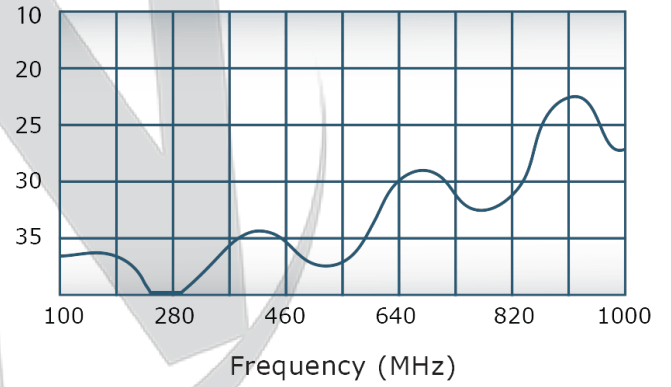
VSWR:



Insertion Loss:

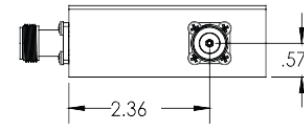
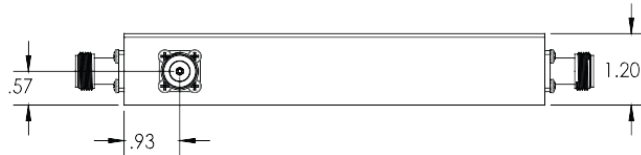
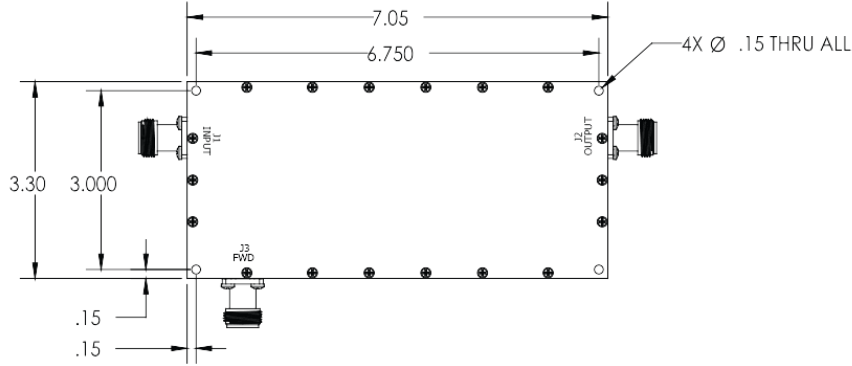


Directivity:



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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
<ul style="list-style-type: none"> <li>• INTERPRET DRAWING LOW MILD STEEL 300</li> <li>• DIMENSIONING PER ASME Y14.5M-2009</li> <li>• PARENTHETICAL INFO FOR REF ONLY</li> <li>• DIMENSIONS ARE IN INCHES</li> <li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li> <li>• TOLERANCES:               <ul style="list-style-type: none"> <li>ANGLES ± 2°</li> <li>3 PL ± .005</li> <li>2 PL ± .015</li> </ul> </li> <li>• REMOVE ALL BURS AND SHARP EDGES R.01 MAX</li> <li>• CONCENTRICITY MACHINED DIA: .003 FDM</li> <li>• MACHINE TOOL PREPARATION AND FINISH</li> </ul>		SC	6/7/2012	
C9271W-10B		CHK	DATE	TITLE
NEXT ASSY USED ON		NH	6/7/2012	
APPLICATION		ENGR	DATE	SIZE
THIRD ANGLE PROJECTION		SW	6/7/2012	CAGE CODE
		APPR	DATE	DWG NO
		QA	DATE	REV
		RESE	DATE	B 28812 20865-500 A
				SCALE
				1:2
				SHEET 1 OF 1

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