



## PRODUCT DATA SHEET

C9270W

**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:  $6 \pm 1.0$  dB Max.  
Insertion Loss: 0.6 dB Max.  
Total Loss: 1.25 dB Theoretical Loss +  
0.6 dB Ins. Loss = 1.85 dB  
Flatness:  $\pm 1.0$  dB Max.  
VSWR (ML): 1.30:1 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), Black  
Epoxy Paint/White Epoxy Lettering  
RoHS Compliant Available  
Operating Temperature: -55°C to +75°C  
Storage Temperature: -60°C to +85°C  
Humidity: 100% Condensing  
Size: 7.05 x 3.3 x 1.2"  
Weight: 33 ounces / 935 grams

### Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C9270W-10-10	N Female	N Female	N Female

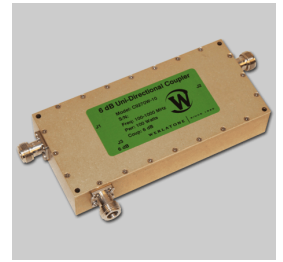
**Werlatone®** Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into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



# WERLATONE

Model C9270W

Connectorized Directional Couplers

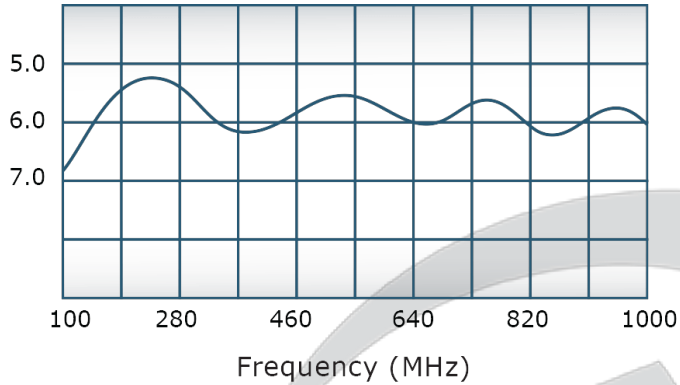


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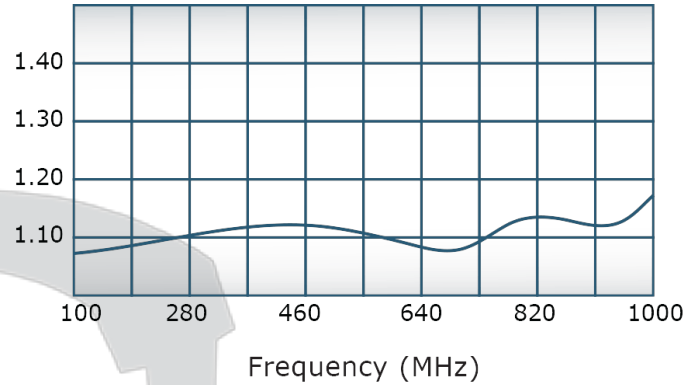
C9270W

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

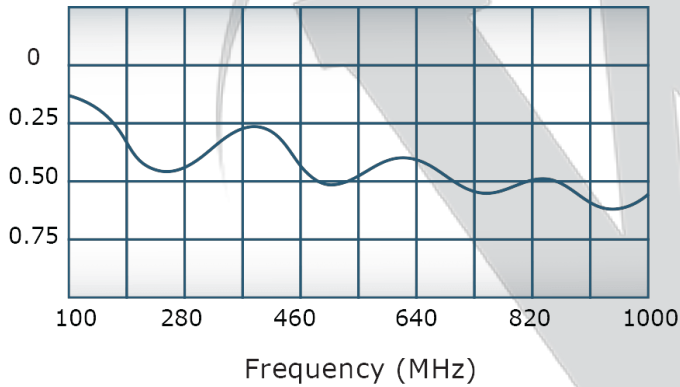
Coupling:



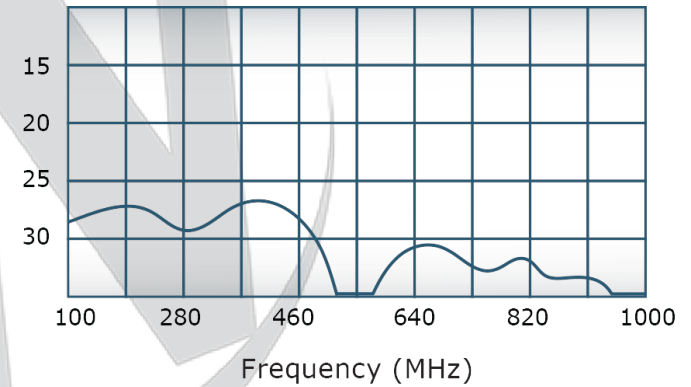
VSWR:



Insertion Loss:



Directivity:



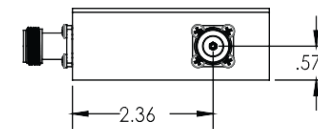
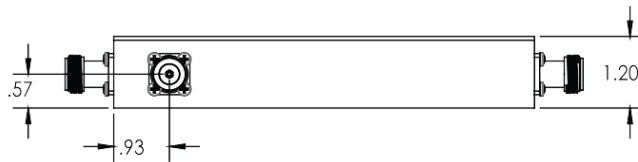
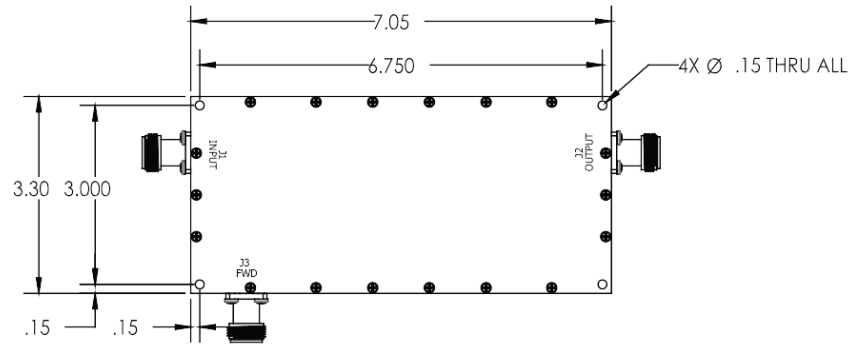
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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN: 5678	6/7/2012	SC



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C		CHK	DATE				
		• DIMENSIONING PER ASME Y14.5M-2009							
		• DIMENSIONS ARE IN INCHES		NH	6/7/2012				
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		ENGR	DATE				
		• TOLERANCES:		BW	6/27/2012				
		ANGLES: ± 2°							
		3 PL ± .005							
		2 PL ± .015							
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		QA	DATE				
		• CONCENTRICITY MACHINED DIA. .002 FIM							
		• MACHINE TOOL MACHINING: .003 MAX							
				FILE	DATE				
		THIRD ANGLE PROJECTION 							
C9270W-10B									
NEXT ASSY		USED ON							
APPLICATION									
				SCALE		1:2		SHEET 1 OF 1	

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