


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 ± 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: ± 1.0 dB Max.
VSWR (ML): 1.30:1 Max.
Directivity: 17 dB Min.

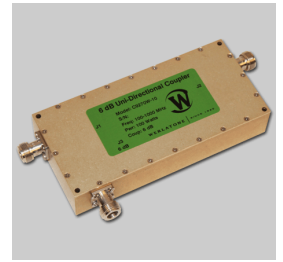
Mechanical Specifications:

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.

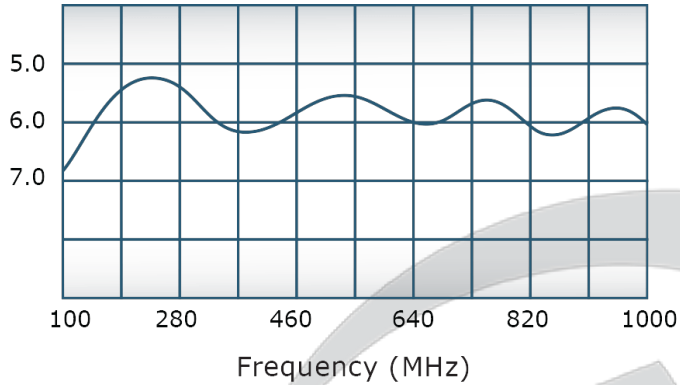


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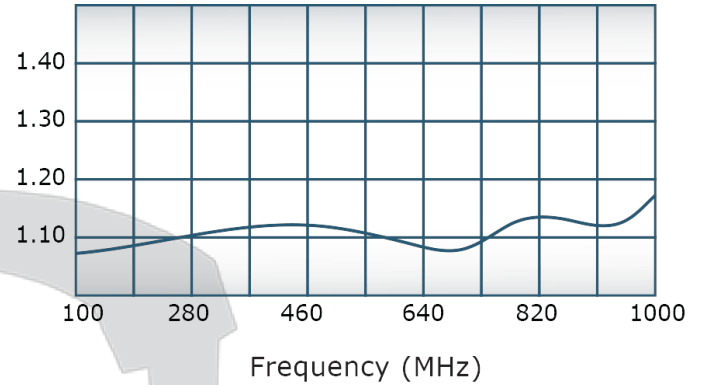
C9270W

Performance Data (Specifications subject to change without notice):

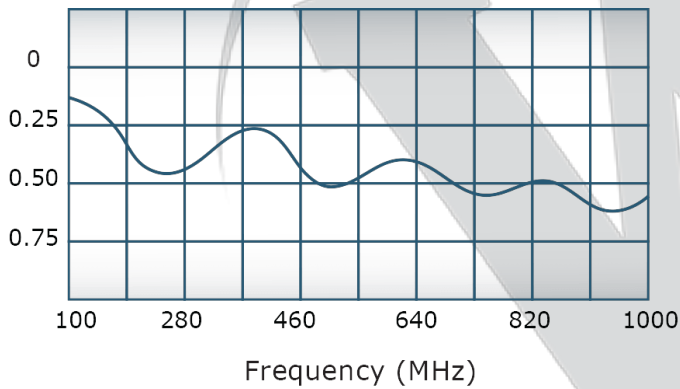
Coupling:



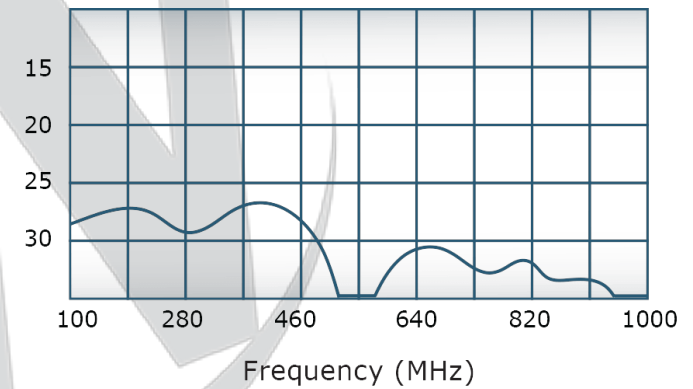
VSWR:



Insertion Loss:



Directivity:



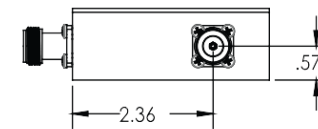
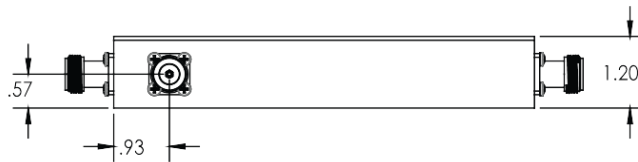
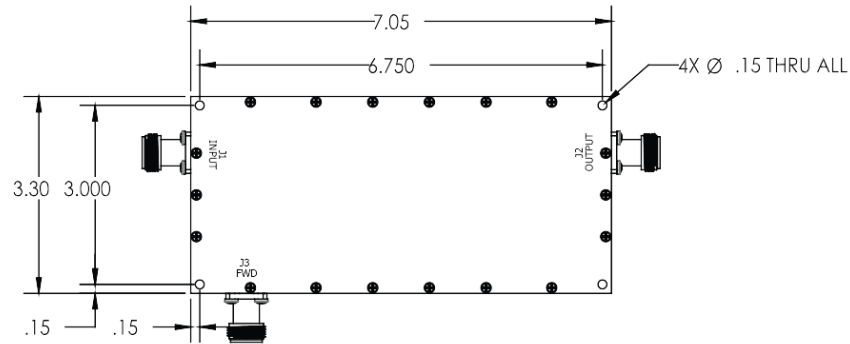
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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN: 5678	6/7/2012	SC



		UNLESS OTHERWISE SPECIFIED		DWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C		SC	6/7/2012				
		• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE				
		• DIMENSIONS ARE IN INCHES		NH	6/7/2012				
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		ENGR	DATE				
		• TOLERANCES:		BW	6/7/2012				
		ANGLES: ± 2°		MPR	DATE				
		3 PL ± .005							
		2 PL ± .015		QA	DATE				
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX							
		• CONCENTRICITY MACHINED DIA. .002 FIM							
		• MACHINE TOOL MACHINING: .003 MAX		FILE	DATE				
		THIRD ANGLE PROJECTION 							
C9270W-10B						SIZE		CAGE CODE	DWG NO
NEXT ASSY		USED ON				B		28812	20864-500
APPLICATION						SCALE		1:2	
									SHEET 1 OF 1

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