



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

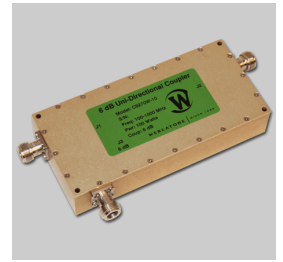
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C9270W

Connectorized Directional Couplers

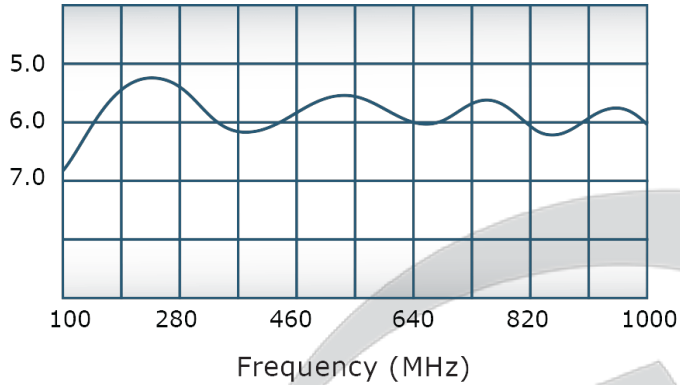


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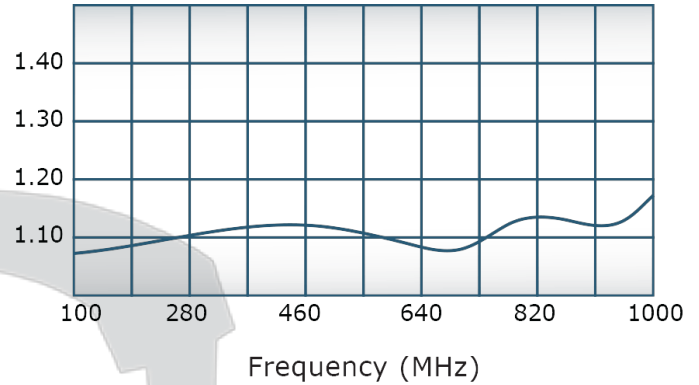
C9270W

Performance Data (Specifications subject to change without notice):

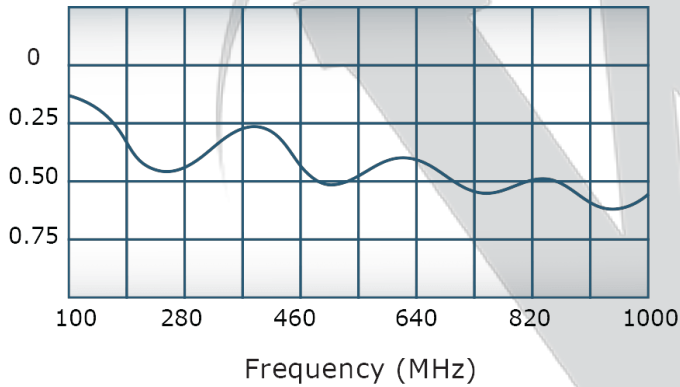
Coupling:



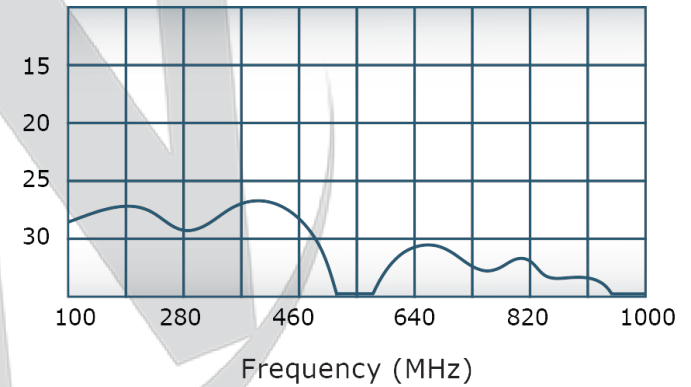
VSWR:



Insertion Loss:



Directivity:



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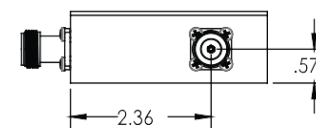
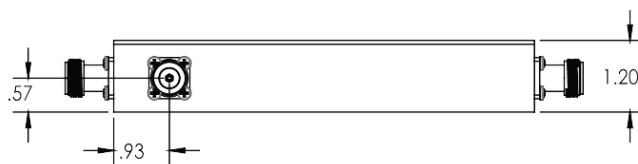
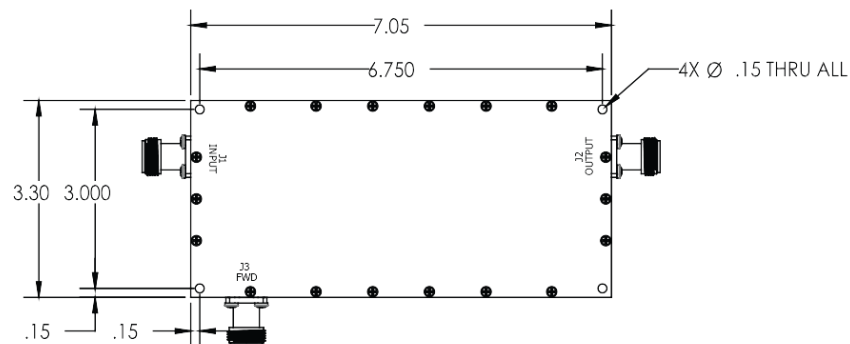
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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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		SC	6/7/2012				
		• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE				
		• IDENTIFY DIMENSIONS FOR BEST COPY		NH	6/7/2012	TITLE			
		• DIMENSIONS ARE IN INCHES		ENGR	DATE				
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		BW	6/7/2012	C9270W-10B			
		• TOLERANCES:		DATE	DATE				
		• ANGLES ± 2°							
		• 3 PL ± .005							
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		• CONCENTRICITY MACHINED DIA. .002 FIM				B	28812	20864-500	A
		• MACHINE TOOL MACHINING .003 MAX		DATE	DATE				
NEXT ASSY		C9270W-10B USED ON		RELEASE	DATE	SCALE		SHEET 1 OF 1	
APPLICATION		THIRD ANGLE PROJECTION				1:2			

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