
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.

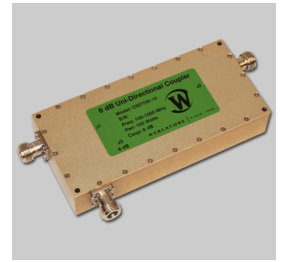
Mechanical Specifications:

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.

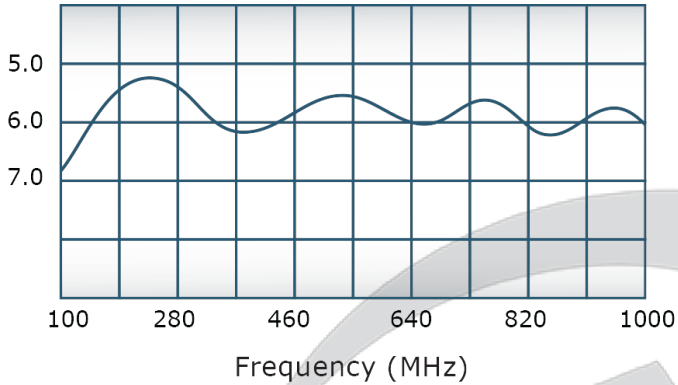


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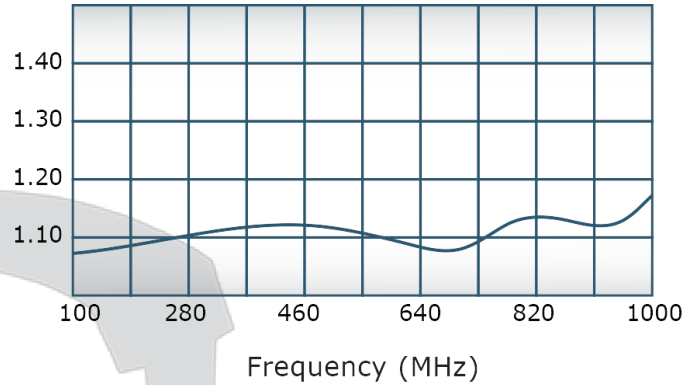
C9270W

Performance Data (Specifications subject to change without notice):

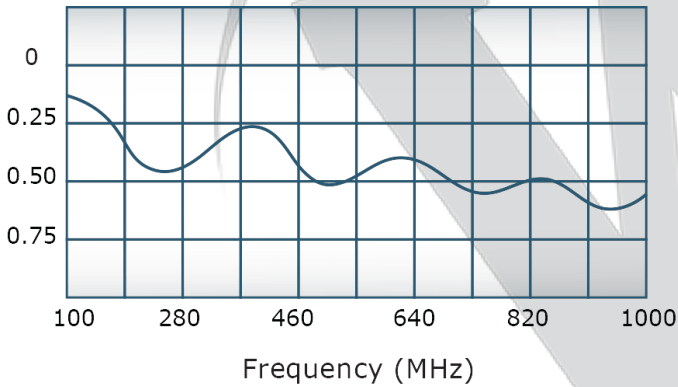
Coupling:



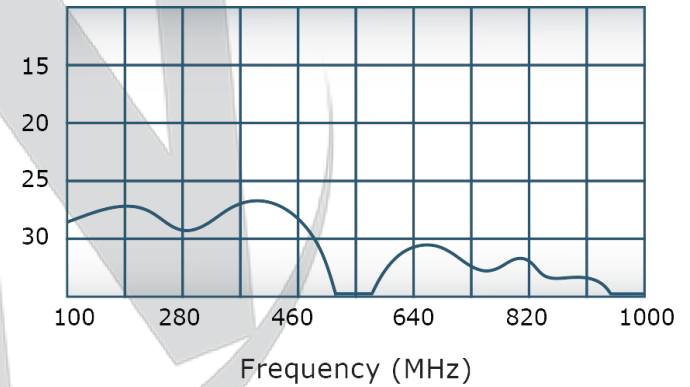
VSWR:



Insertion Loss:



Directivity:



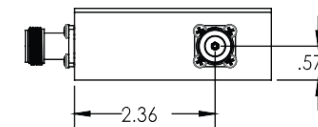
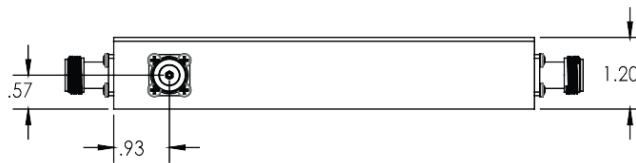
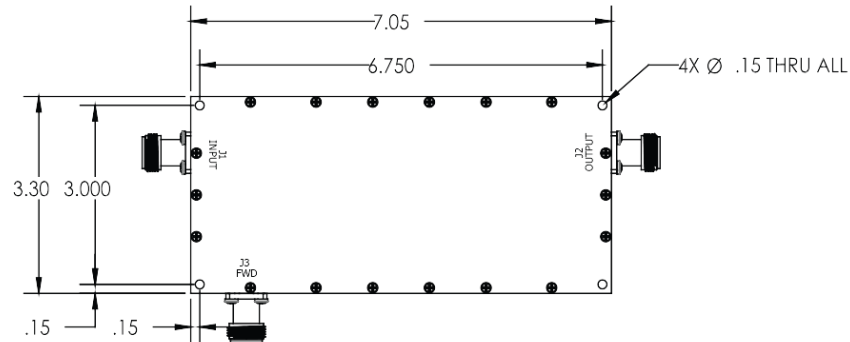
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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN: 5678	6/7/2012	SC



UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C	• DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE		
• DIMENSIONS ARE IN INCHES	• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	ENGR	DATE	TITLE C9270W-10B	
• TOLERANCES:	• ANGLES ± 2°	DATE	DATE		
• REMOVE ALL BURS AND SHARP EDGES R.01 MAX	• CONCENTRICITY MACHINED DIA. .002 FIM	MPGR	DATE	SIZE	CAGE CODE
• MACHINE TOOL MACHINING .003 MAX		QA	DATE	B	28812
		RLSE	DATE	SCALE	1:2
THIRD ANGLE PROJECTION				SHEET 1 OF 1	

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