

PRODUCT DATA SHEET

C7925

4-Port Bi-Directional Coupler: Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 500 - 2000 MHz
 Power: 200 W CW
 Coupling: 10 ± 1.0 dB Max.
 Insertion Loss: 0.35 dB Max.
 Flatness: ± 1.2 dB Max.
 VSWR (ML): 1.25:1 Max.
 Directivity: 18 dB Min.

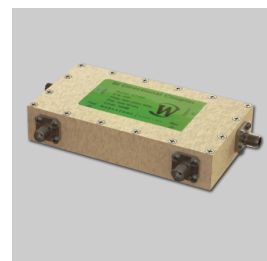
Mechanical Specifications:

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: 95% Non-Condensing
 Size: 3.7 x 2.0 x 0.75"
 Weight: 8 ounces

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7925-10	N Female	N Female	N Female	N Female
C7925-12	N Female	N Female	SMA	SMA
C7925-102	SMA	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.

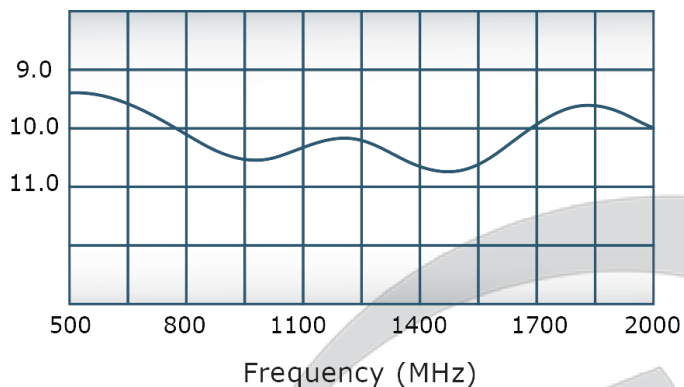


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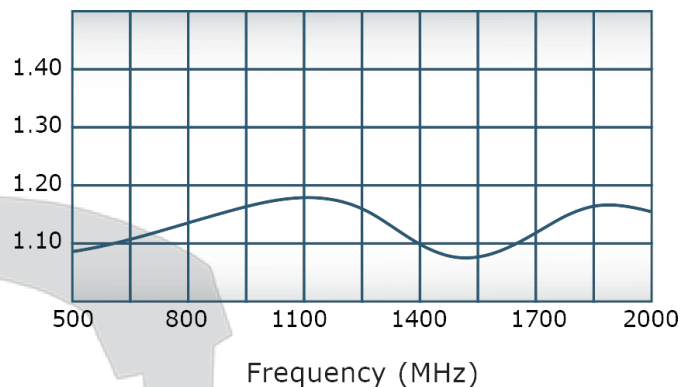
C7925

Performance Data (Specifications subject to change without notice):

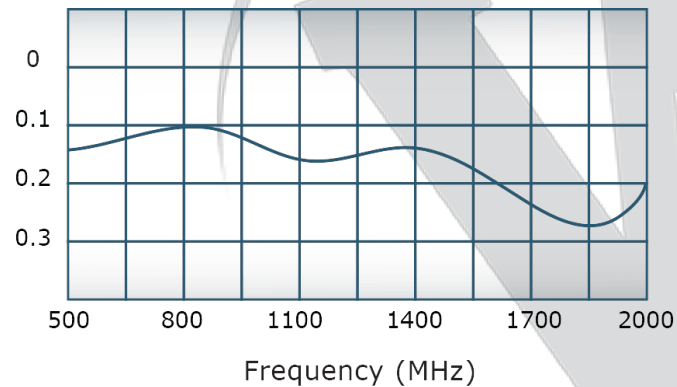
Coupling:



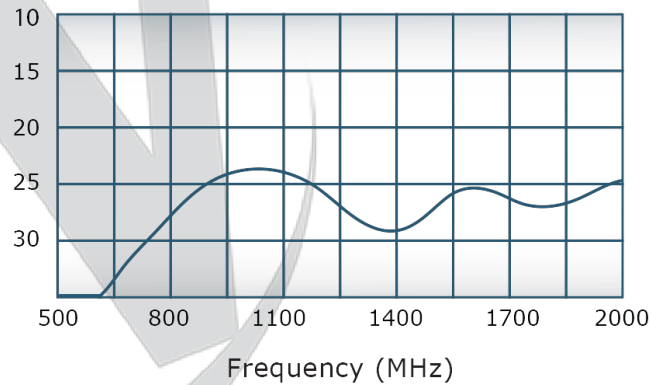
VSWR:



Insertion Loss:



Directivity:

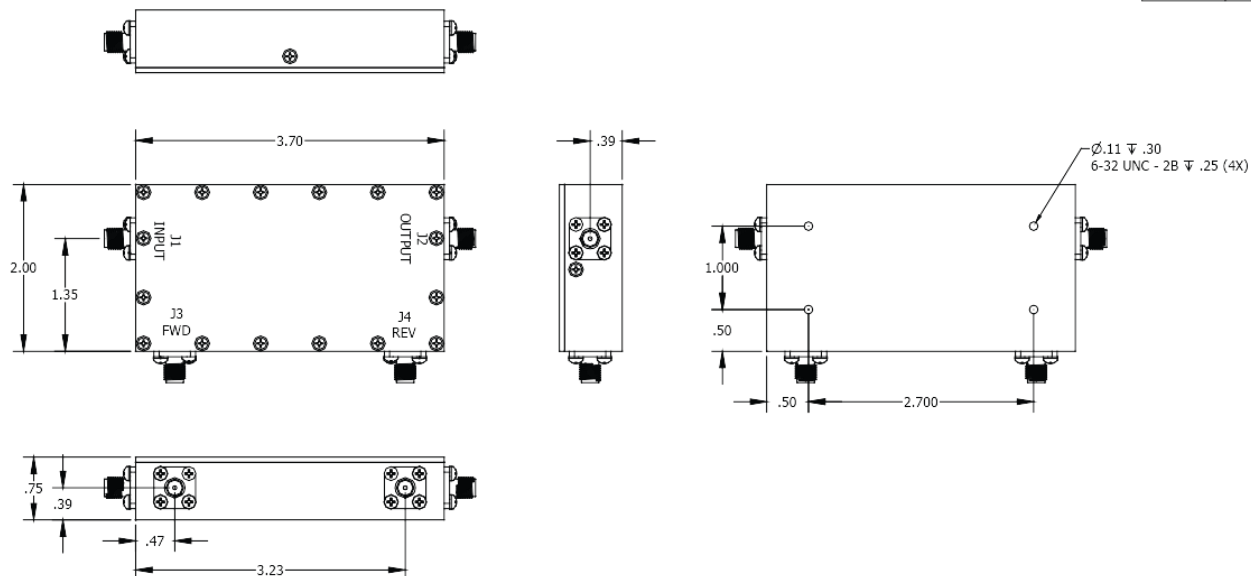



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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV



UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965		2095 Route 22 Brewster, NY 10509	
* INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		NH	4/1/2010	TITLE OUTLINE USED ON			
* DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE				
* PARENTHESES FOR REF ONLY		BW	4/1/2010				
* DIMENSIONS ARE IN INCHES		ENGR	DATE				
* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		BW	4/1/2010				
* TOLERANCES: ANGLES ± 2° XXX ± .005 XX ± .015		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		PLSE	DATE	A	28812	20611-500	
THIRD ANGLE PROJECTION				SCALE			
		SHEET 1 OF 1					

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