

## 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.

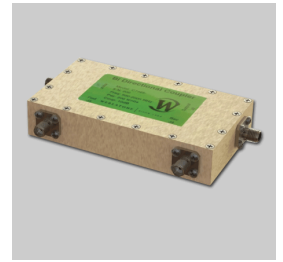
### Mechanical Specifications:

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:

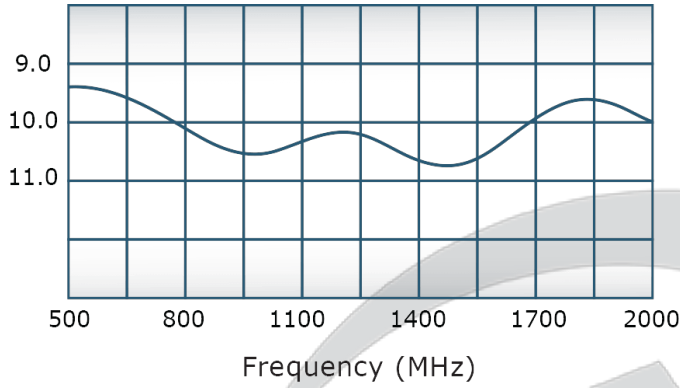
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7925-10	N Female	N Female	N Female	N Female
C7925-12	N Female	N Female	SMA	SMA
C7925-102	SMA	SMA	SMA	SMA

**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.

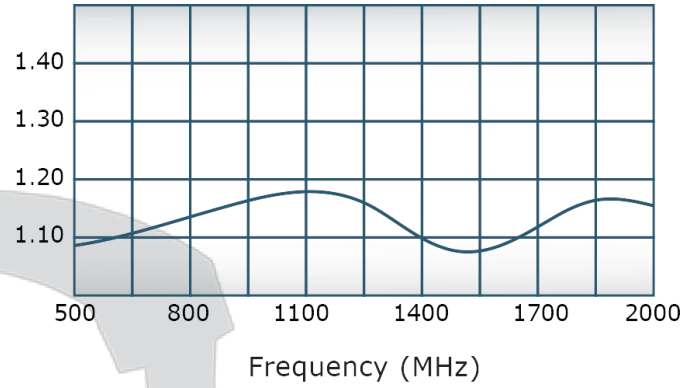


## Performance Data (Specifications subject to change without notice):

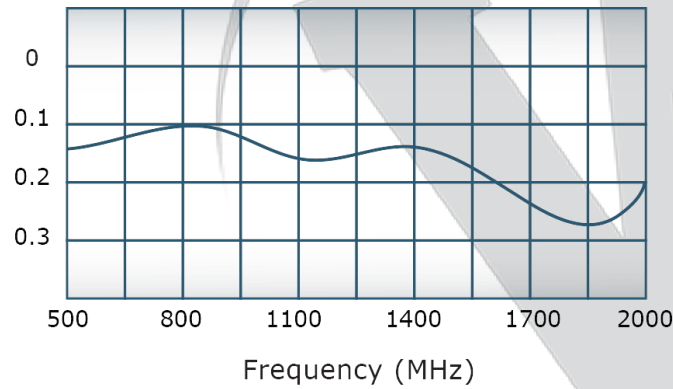
Coupling:



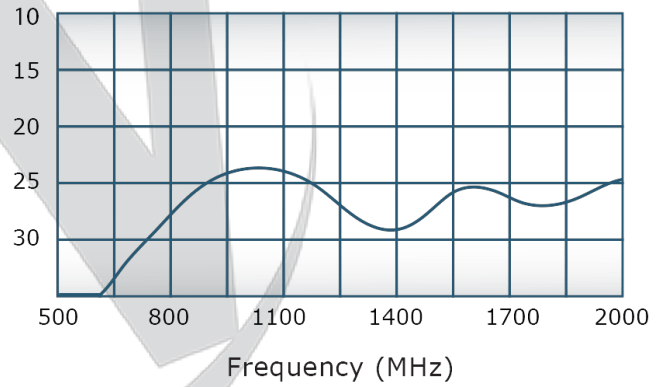
VSWR:



Insertion Loss:

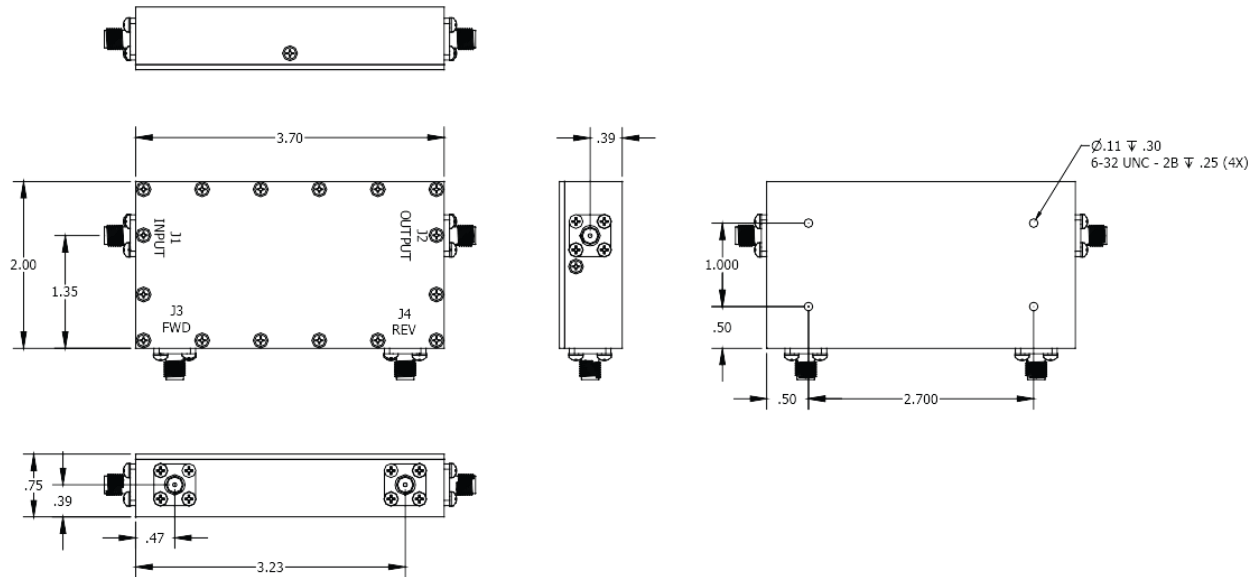


Directivity:



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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV



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

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