

## PRODUCT DATA SHEET

C8998

**4-Port Dual Directional Coupler** employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

### Features:

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

### Electrical Specifications:

Frequency: 100 - 3000 MHz  
 Power: 250 W CW  
 Coupling:  $40 \pm 1.0$  dB Max.  
 Insertion Loss: 0.4 dB Max.  
 Flatness:  $\pm 1.0$  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: 3.0 x 2.2 x 1.09"

### Connector Configurations:

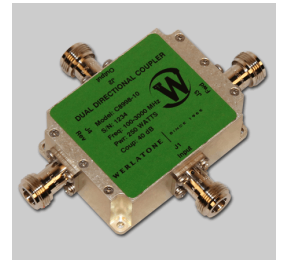
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8998-10	N Female	N Female	N Female	N Female
C8998-12	N Female	N Female	SMA	SMA
C8998-13	N Female	N Female	BNC	BNC
C8998-102	SMA	SMA	SMA	SMA

**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.



# WERLATONE

Model C8998

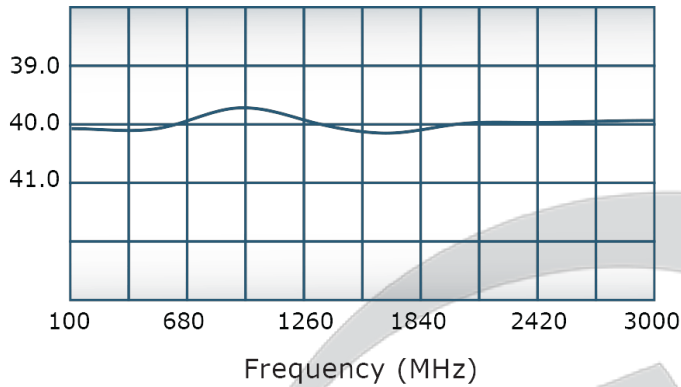


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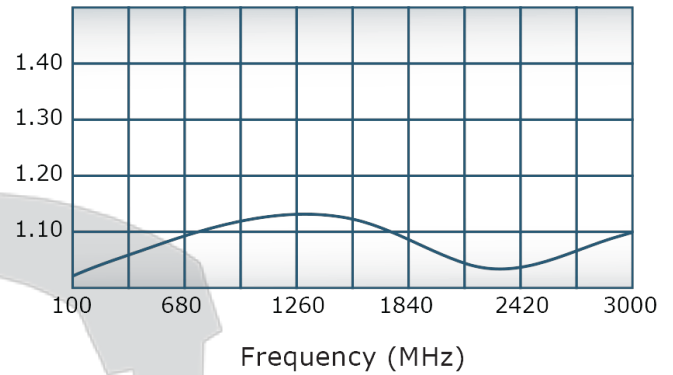
C8998

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

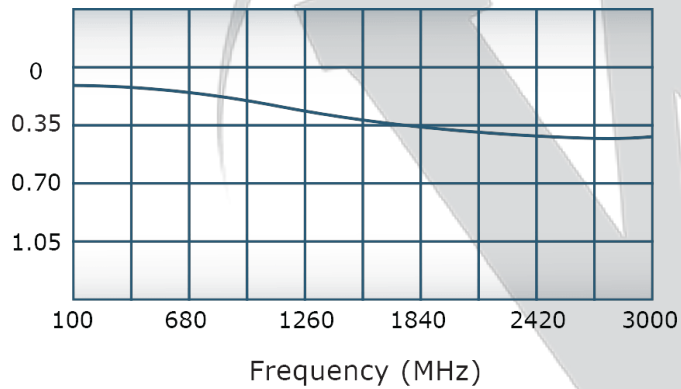
Coupling:



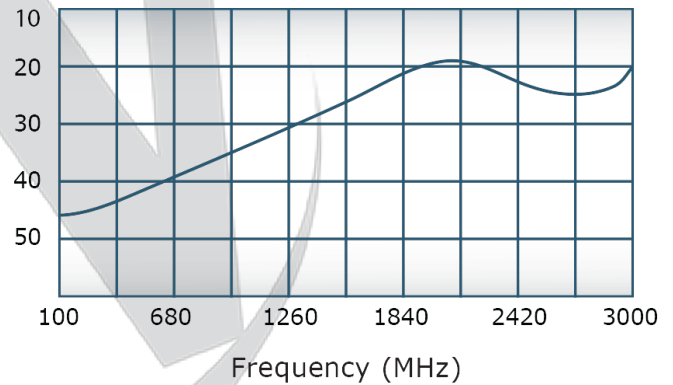
VSWR:



Insertion Loss:



Directivity:

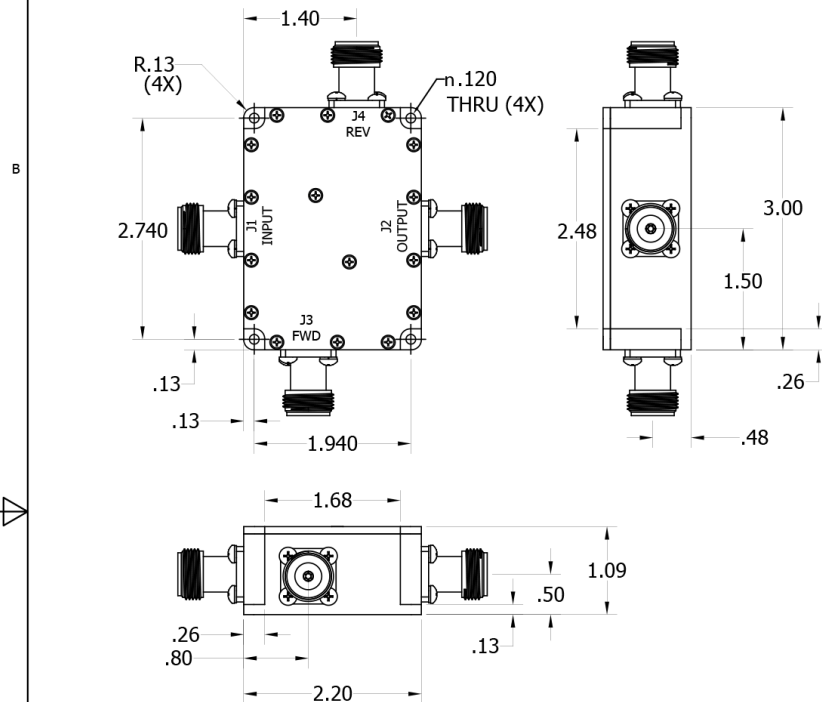




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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
5/4/2011	-	INITIAL RELEASE	NH	BW	BW



UNLESS OTHERWISE SPECIFIED		DWN	DATE	 <b>WERLATONE</b>   SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563			
INTERPRET DRAWING IAW MIL-STD-100 DIMENSIONING PER ASME Y14.5M-2009 PARAMETRIC INFO FOR REF ONLY DIMENSIONS ARE IN INCHES TOLERANCES: ANGLE ± 2° 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015		NH	05/04/11		<b>OUTLINE</b>			
		CHK	DATE					
		BW	05/04/11					
		ENGR	DATE					
		BW	05/04/11					
		QA	DATE	USED ON				
THIRD ANGLE PROJECTION 		RLSE	DATE	SIZE	CAGE CODE	DWG NO	REV	
				A	28812		20769-500	-
				SCALE	1:2	SHEET 1 OF 1		

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