

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 ± 1.0 dB Max.
Insertion Loss:	0.4 dB Max.
Flatness:	± 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

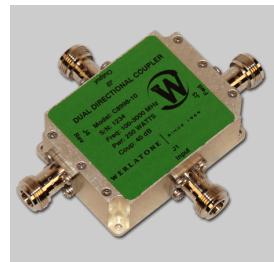
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C8998

Connectorized Directional Couplers

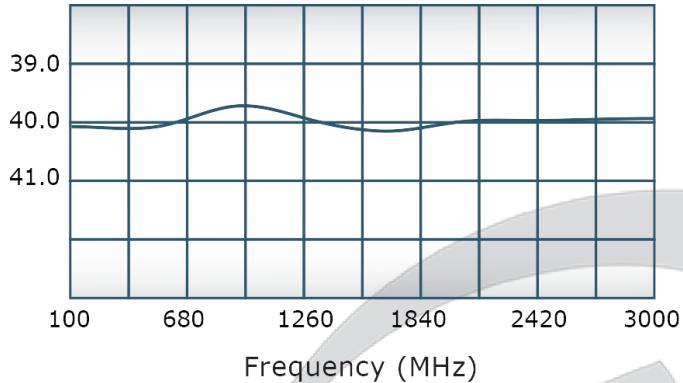


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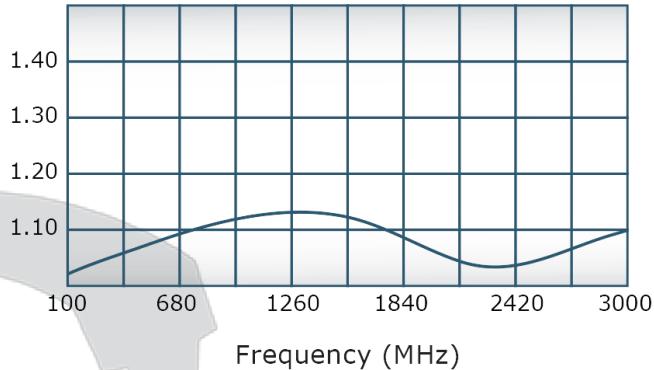
C8998

Performance Data (Specifications subject to change without notice):

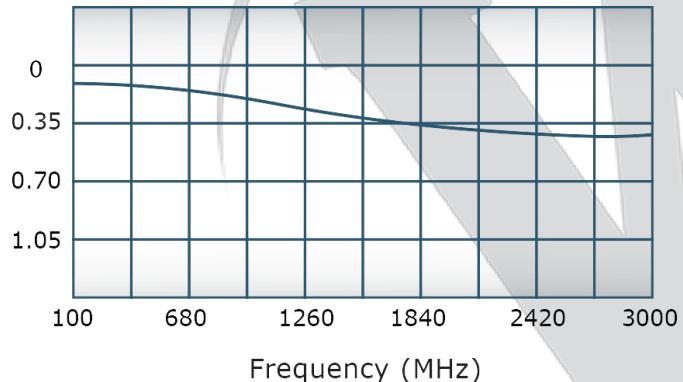
Coupling:



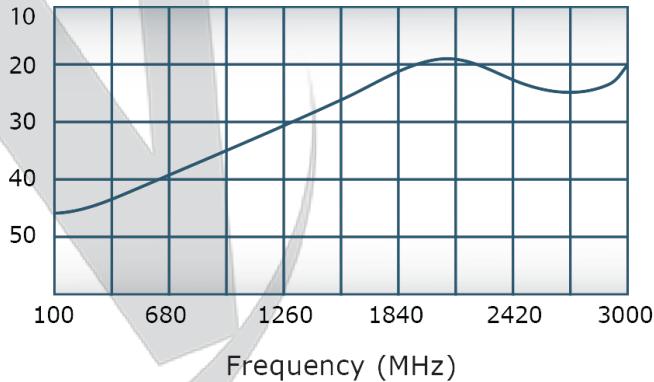
VSWR:



Insertion Loss:



Directivity:



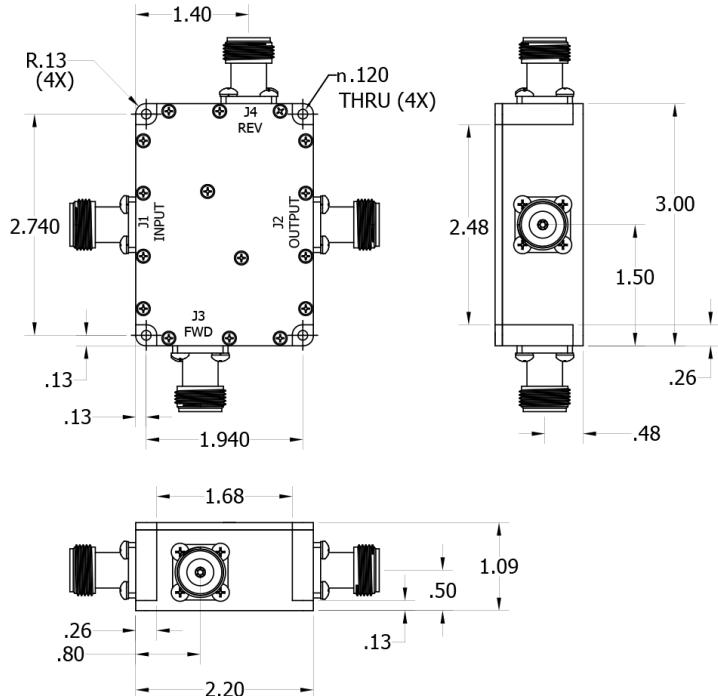
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REVISION HISTORY

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



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UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IAW MIL-STD-100
- DIMENSIONING PER ASME Y14.5M-2009
- PARANTHETICAL INFO FOR REF ONLY
- DIMENSIONS ARE IN INCHES
- TOLERANCES: ANGLE $\pm 2^\circ$
3 PL DECIMALS $\pm .005$
2 PL DECIMALS $\pm .015$
THIRD ANGLE PROJECTION

DWN NH	DATE 05/04/11	W WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563
OUTLINE				
CHK BW	DATE 05/04/11	TITLE		
ENGR BW	DATE 05/04/11	USED ON		
QA	DATE			
RLSE	DATE	SIZE A	CAGE CODE 28812	DWG NO 20769-500
		SCALE 1:2		REV -
				SHEET 1 OF 1