



PRODUCT DATA SHEET

C8896

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: 20 - 1000 MHz
 Power: 500 W CW
 Coupling: 50 ± 1.0 dB Max.
 Insertion Loss: 0.35 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.25:1 Max.
 Directivity: 20 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: 5.2 x 2.68 x 1.69"

Connector Configurations:

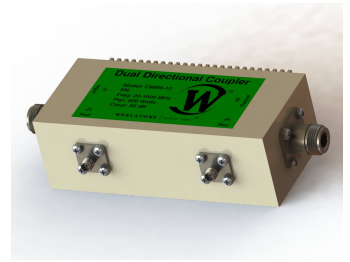
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8896-10	N Female	N Female	N Female	N Female
C8896-12	N Female	N Female	SMA	SMA
C8896-13	N Female	N Female	BNC	BNC
C8896-712	N Male	N Female	SMA	SMA
C8896-714	N Male	N Female	N Female	N Female

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.



WERLATONE

Model C8896

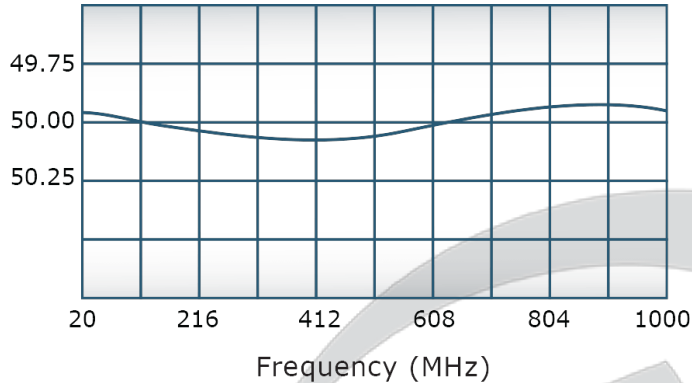


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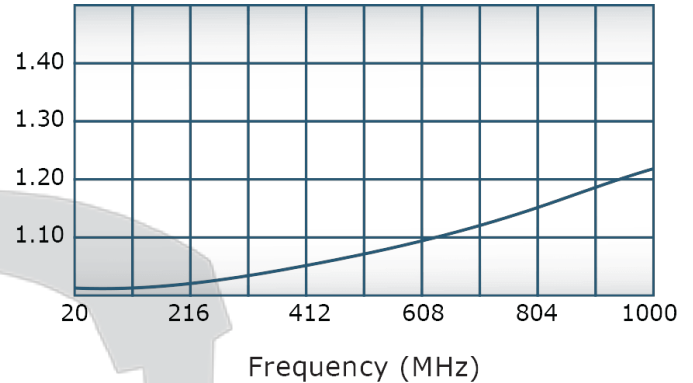
C8896

Performance Data (Specifications subject to change without notice):

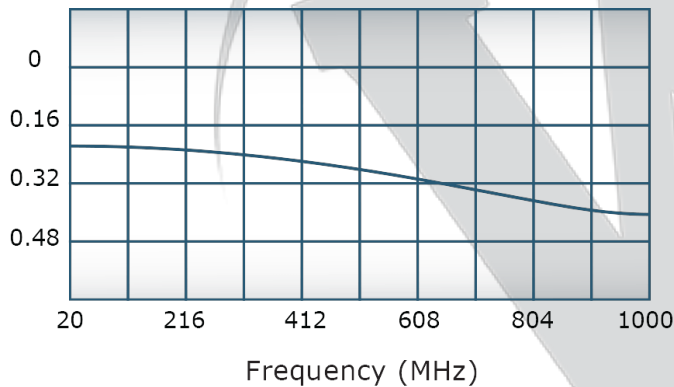
Coupling:



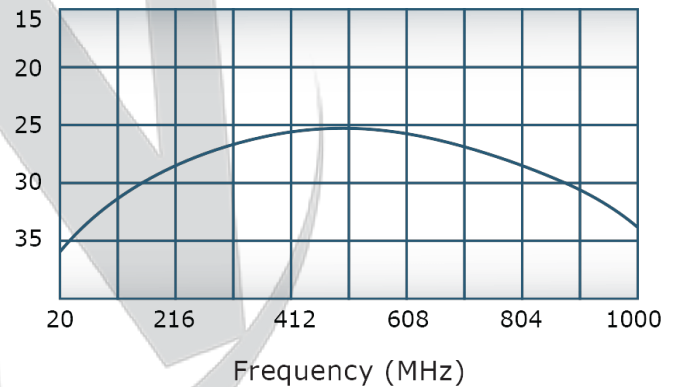
VSWR:



Insertion Loss:



Directivity:

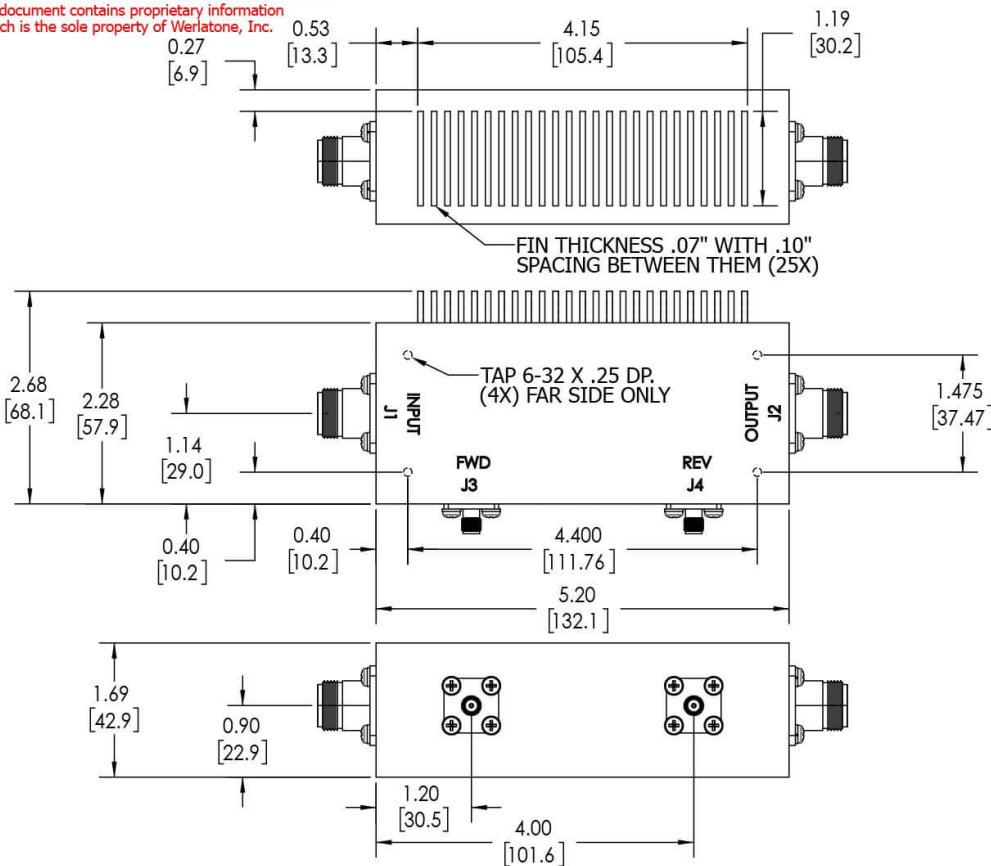


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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**
J1, J2: N FEMALE
J3, J4: SMA FEMALE

UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/2019	 WERLATONE SINCE 1965	
DIMENSIONS FOR ASME Y14.5M-2009		CHK	DATE		
PARENTHESES FOR REF ONLY		CS	2/11/2019	TITLE	
DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		BW	5/28/2008		
TOLERANCES:		INFR	DATE	SIZE	CAGE CODE
ANGLES ± 2°		QA	DATE	B	10407-502
3 PL ± .005 [.13]		RLSE	DATE	SCALE	1:1.5
2 PL ± .015 [.38]		THIRD ANGLE PROJECTION		DWG NO	10407-502
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		SHEET 1 OF 1		REV	A
CONCENTRICITY MACHINED DIA. .002 FIM					
MACHINE TOOL MISMATCH .003 MAX					

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