

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"

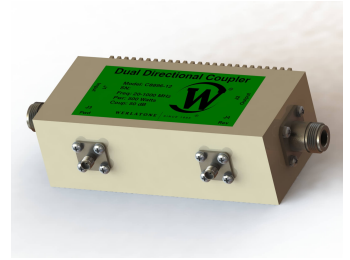
Connector Configurations:

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.

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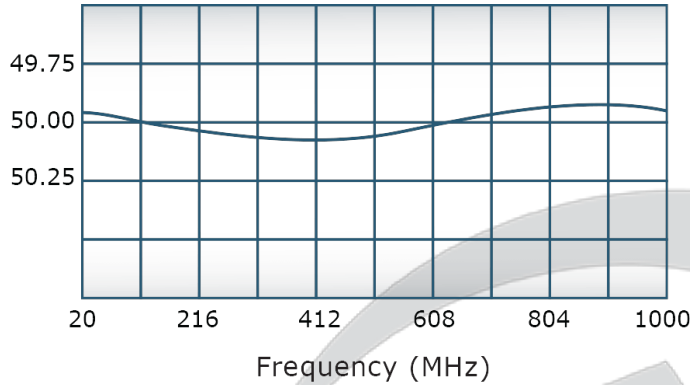


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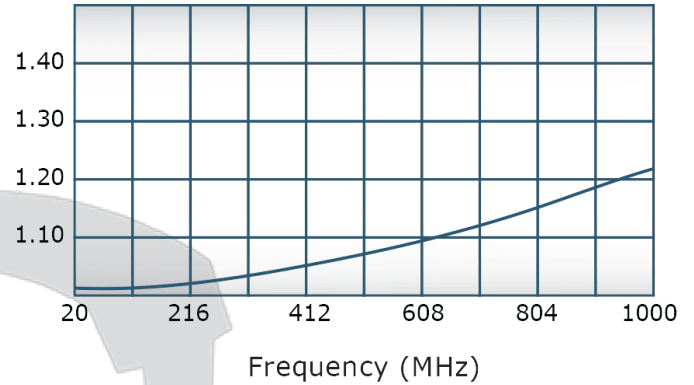
C8896

Performance Data (Specifications subject to change without notice):

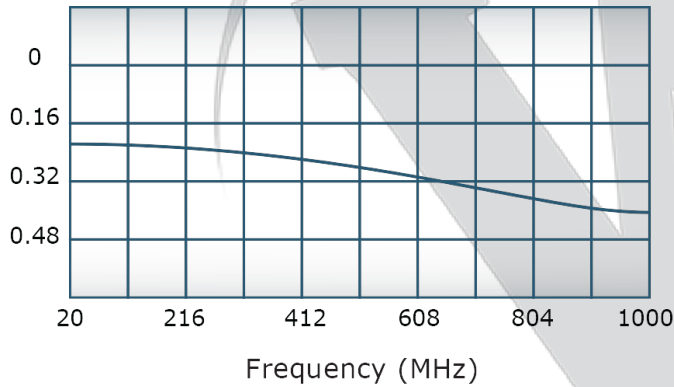
Coupling:



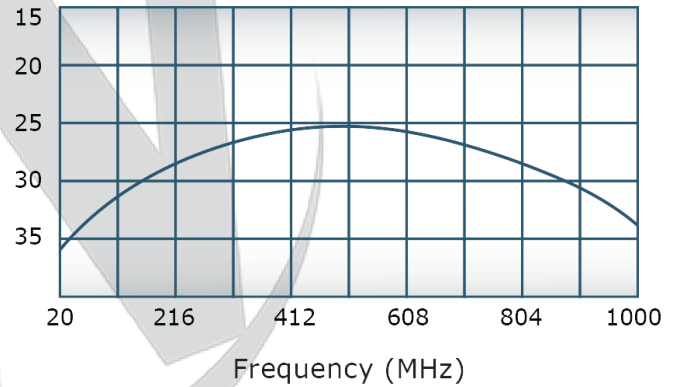
VSWR:



Insertion Loss:



Directivity:



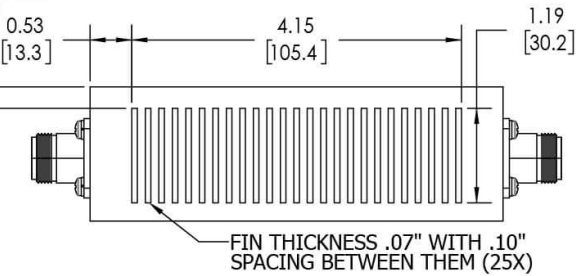
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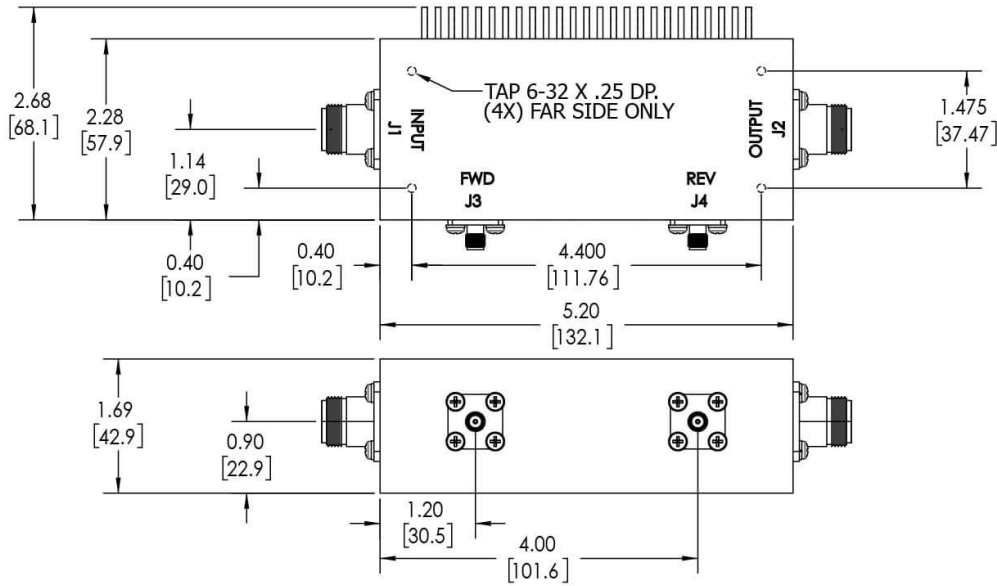
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FIN THICKNESS .07" WITH .10" SPACING BETWEEN THEM (25X)



TAP 6-32 X .25 DP. (4X) FAR SIDE ONLY

INPUT J1

OUTPUT J2

FWD J3

REV J4

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		DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	2/11/2019	W	WERLATONE SINCE 1965
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE		
PARENTHERTICAL INFO FOR REF ONLY	ENGR	2/11/2019		
DIMENSIONS ARE IN INCHES	CS	DATE		TITLE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	ENGR	DATE		OUTLINE
TOLERANCES:	BW	5/28/2008		SIZE
ANGLES ± 2°	INFR	DATE		CAGE CODE
3 PL ± .005 [1.3]	QA	DATE		DWG NO
2 PL ± .015 [3.8]	DATE			REV
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	RLSE	DATE		B
CONCENTRICITY MACHINED DIA: .002 FIM				10407-502
MACHINE TOOL MISMATCH .003 MAX.				A
NEXT ASSY	USED ON			SCALE
APPLICATION	THIRD ANGLE PROJECTION			1:1.5
				SHEET 1 OF 1

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