

PRODUCT DATA SHEET

C8895

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: 123 - 133 MHz
Power: 200 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.15 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.20:1 Max.
Directivity: 27 dB Min.

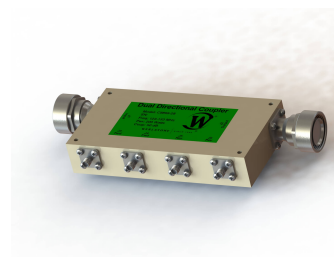
Mechanical Specifications:

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: 6.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8895-22	7/16 Female	7/16 Female	SMA	SMA
C8895-28	7/16 Male	7/16 Male	SMA	SMA
C8895-6612	Right Angle SMA	Right Angle 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.

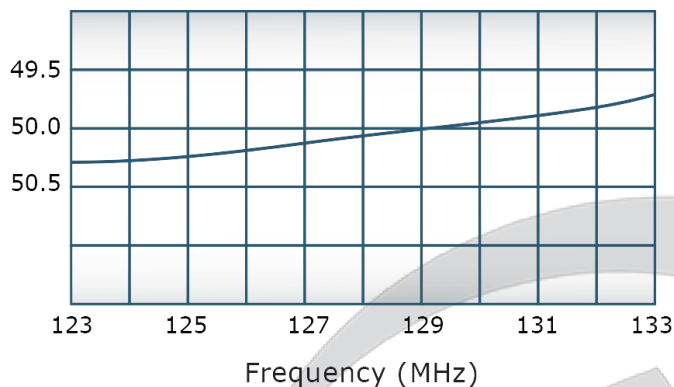


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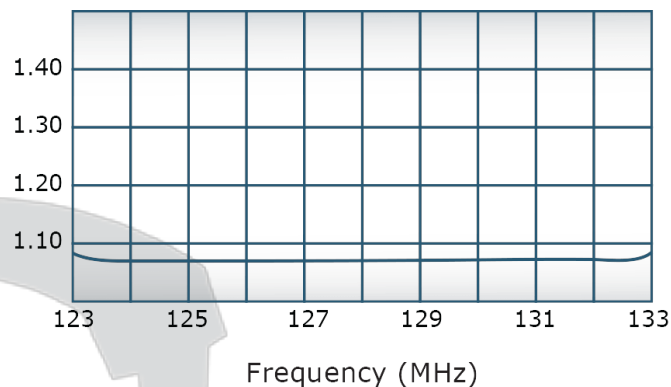
C8895

Performance Data (Specifications subject to change without notice):

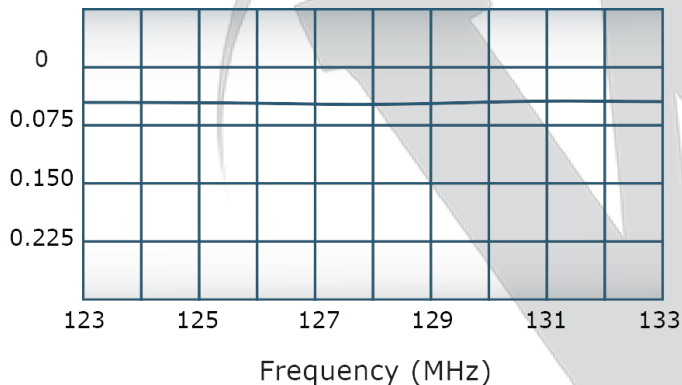
Coupling:



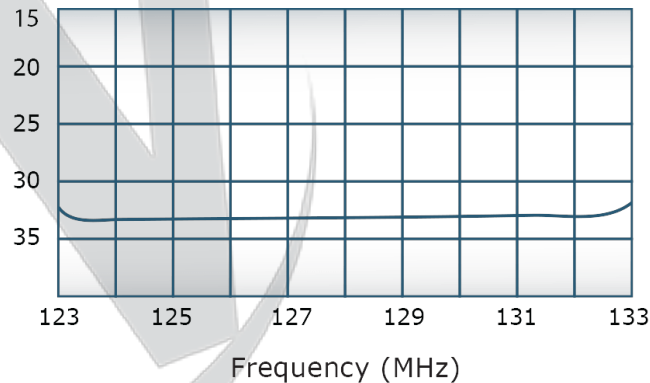
VSWR:



Insertion Loss:



Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/18/2019	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: 7/16 MALE
J3-J6: SMA FEMALE

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	6/18/2019			
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	OUTLINE		
		PARENTHESES FOR REF ONLY		CS	6/18/2019			
		DIMENSIONS ARE IN INCHES		ENGR	DATE	SIZE CAGE CODE DWG NO B 10750-503		
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE			
		TOLERANCES:		QA	DATE	SCALE 1:1.25		
		ANGLES ± 2° 3 PL ± .005 [.13] 2 PL ± .015 [.38] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 MAX		RLSE	DATE			
NEXT ASSY USED ON		THIRD ANGLE PROJECTION 		SHEET 1 OF 1				
APPLICATION								

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