

PRODUCT DATA SHEET

C8212

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 - 500 MHz
Power: 1000 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.3 dB Max.
VSWR (ML): 1.10:1 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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8212-10	N Female	N Female	N Female	N Female
C8212-12	N Female	N Female	SMA	SMA
C8212-13	N Female	N Female	BNC	BNC
C8212-302	TNC Female	TNC Female	SMA	SMA
C8212-712	N Male	N Female	SMA	SMA
C8212-714	N Male	N Female	N Female	N Female

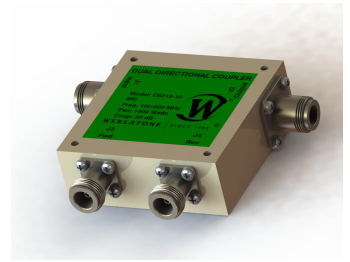
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C8212

Connectorized Directional Couplers

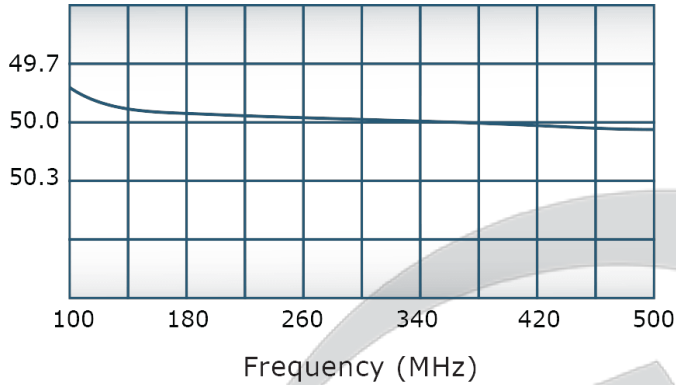


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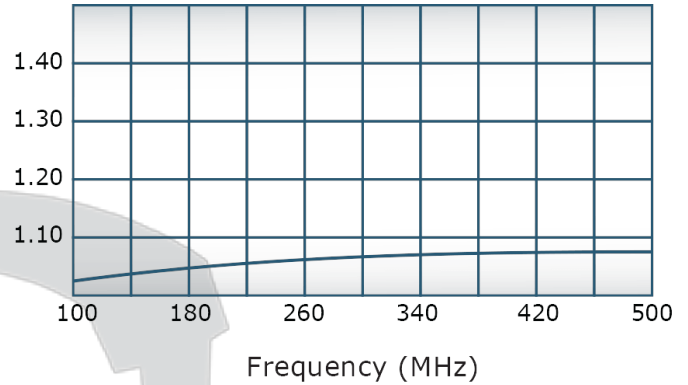
C8212

Performance Data (Specifications subject to change without notice):

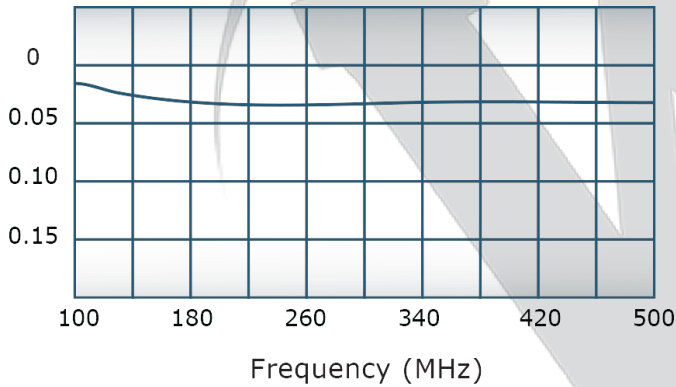
Coupling:



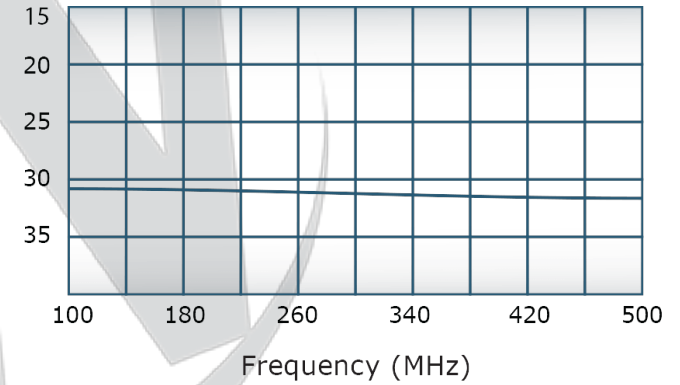
VSWR:



Insertion Loss:



Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

		UNLESS OTHERWISE SPECIFIED		DWN	DATE	17 Jon Barrett Rd	
		• INTERPRET DRAWING JAW MIL-STD-100		RH	7/5/2001	Patterson, NY 12563	
		• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	WERLATONE SINCE 1965	
		• PARENTHESES FOR REF ONLY		ENGR	DATE		
		• DIMENSIONS ARE IN INCHES		MJ	7/5/2001	TITLE OUTLINE	
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MPGR	DATE		
		• TOLERANCES:		QA	DATE	B CAGE CODE DWG NO 10379-505	
		• ANGLES ± 2°		ELSE	DATE		
		• 3 PL ± .005 [1.3]				REV A	
		• 2 PL ± .015 [1.3]					
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				SCALE 1:1	
		• CONCENTRICITY MACHINED DIA: .002 FIM					
		• MACHINE TOOL MISMATCH .003 MAX				SHEET 1 OF 1	
NEXT ASSY USED ON		THIRD ANGLE PROJECTION 					
APPLICATION							

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