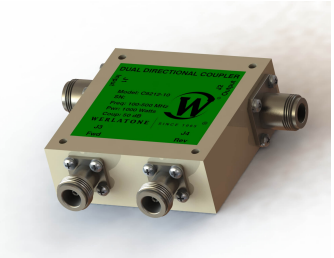
WERLATONE

Model C8212
Connectorized Directional Couplers



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

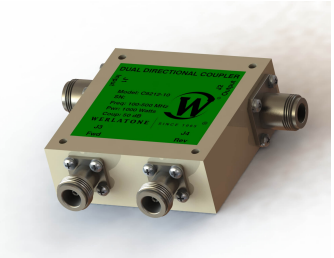
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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

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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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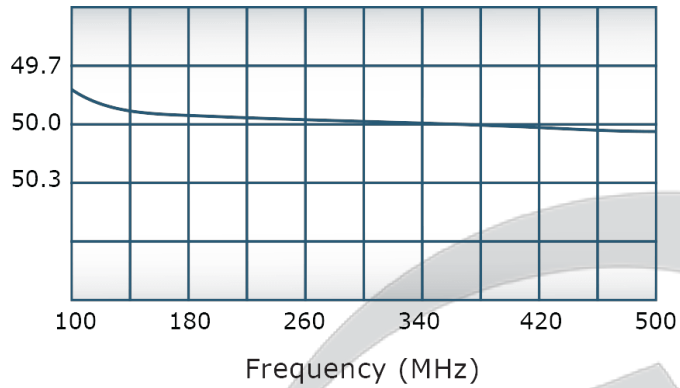
Model C8212
Connectorized Directional Couplers



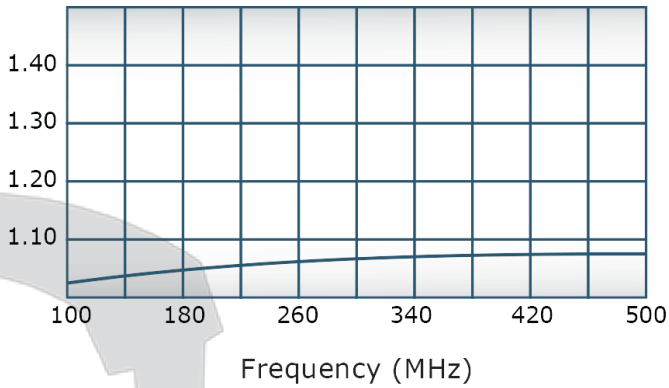
PRODUCT DATA SHEET **C8212**

Performance Data (Specifications subject to change without notice):

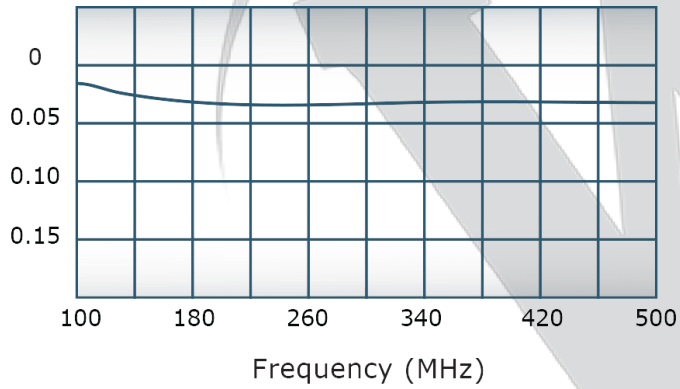
Coupling:



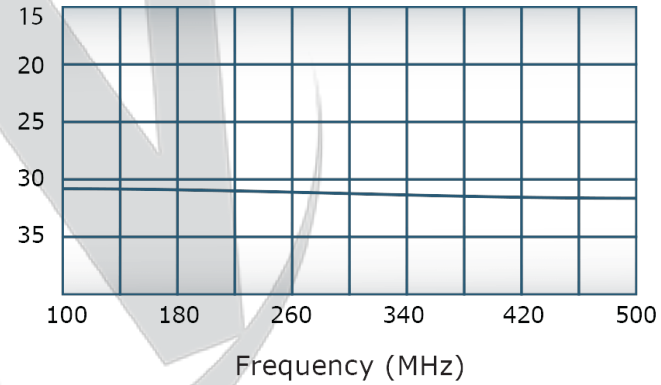
VSWR:



Insertion Loss:



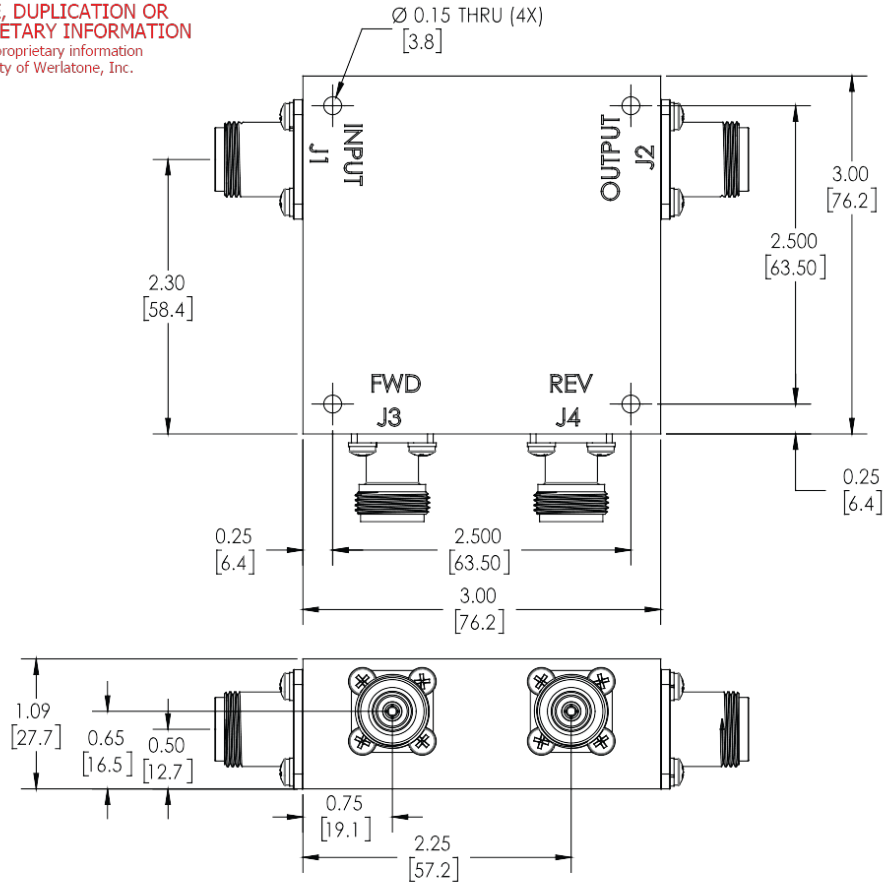
Directivity:



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

NOTES: UNLESS OTHERWISE SPECIFIED
1. **MATERIAL: ALUMINUM 6061-T6**
2. **FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

		UNLESS OTHERWISE SPECIFIED	DWN	DATE
		• INTERPRET DRAWING IAW MIL-STD-100	RH	7/5/2001
		• DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE
		• PARENTHETICAL INFO FOR REF ONLY	ENGR	DATE
		• DIMENSIONS ARE IN INCHES	MJ	7/5/2001
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	MFGR	DATE
		• TOLERANCES: ANGLES ± 2° / 3 PL ± .005 [.13] / 2 PL ± .015 [.38]	QA	DATE
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	RLSE	DATE
		• CONCENTRICITY MACHINED DIA .002 FIM		
		• MACHINE TOOL MISMATCH .003 MAX		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		
APPLICATION				

WERLATONE SINCE 1965 — 17 Jon Barrett Rd Patterson, NY 12563

TITLE: OUTLINE

SIZE	CAGE CODE	DWG NO	REV
B		10379-505	A

SCALE 1:1 — SHEET 1 OF 1

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