

PRODUCT DATA SHEET

C10512

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: 400 - 1000 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)
C10512-10	N Female	N Female	N Female	N Female
C10512-12	N Female	N Female	SMA	SMA
C10512-13	N Female	N Female	BNC	BNC
C10512-41	SC Female	SC Female	N Female	N Female
C10512-43	SC Female	SC Female	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.

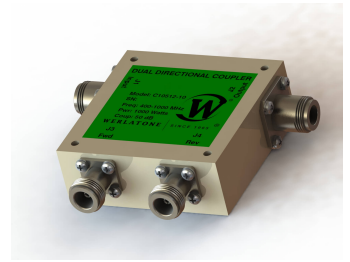
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WERLATONE

Model C10512

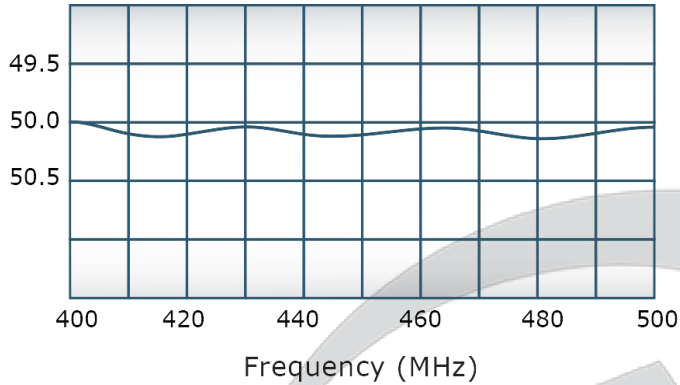


PRODUCT DATA SHEET

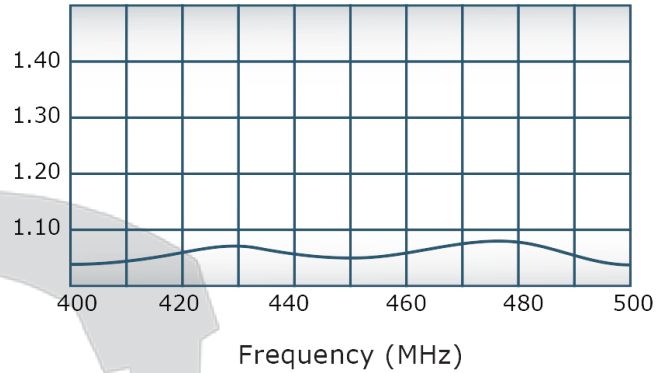
C10512

Performance Data (Specifications subject to change without notice):

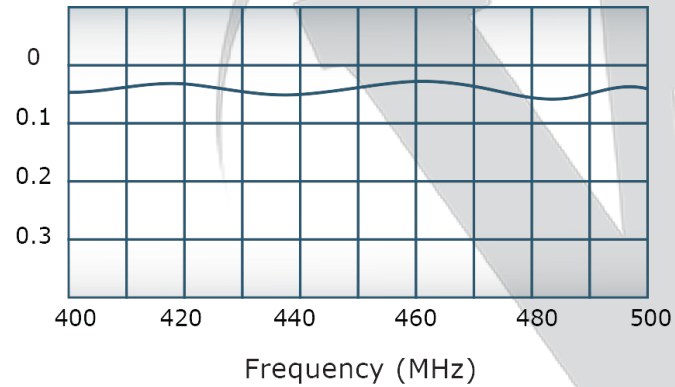
Coupling:



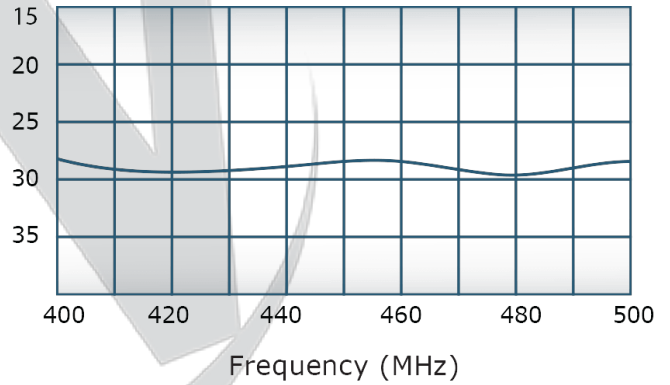
VSWR:



Insertion Loss:



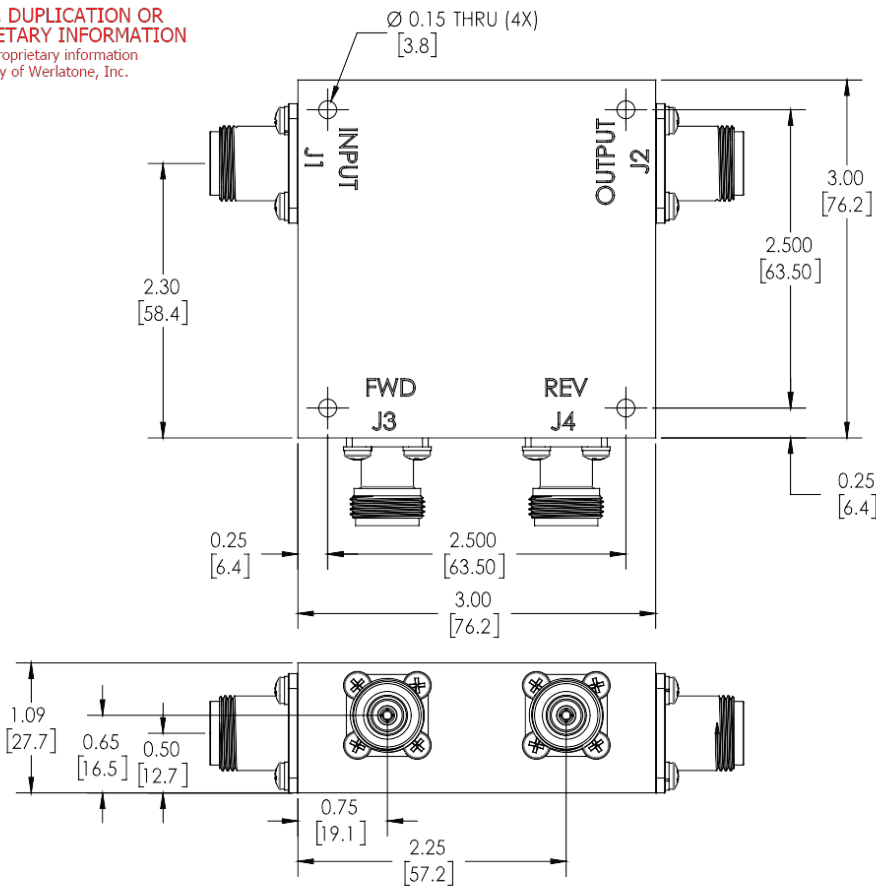
Directivity:



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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			
• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	OWN	DATE	7/5/2001
• DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE	
• PARENTHESES FOR REF ONLY	ENGR	DATE	
• DIMENSIONS ARE IN INCHES	MJ	7/5/2001	
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	DATE		
• TOLERANCES:	QA	DATE	
ANGLES: ± 2°	DATE		
2 PL. ± .005 [0.13]	DATE		
2 PL. ± .015 [0.38]	DATE		
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE		
• CONCENTRICITY MACHINED DIA: .002 FIM	DATE		
• MACHINE TOOL MISMATCH: .003 MAX	DATE		
THIRD ANGLE PROJECTION	DATE		

 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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