
PRODUCT DATA SHEET
C10322

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 - 200 MHz
Power: 100 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.3 dB Max.
VSWR (ML): 1.20:1 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"

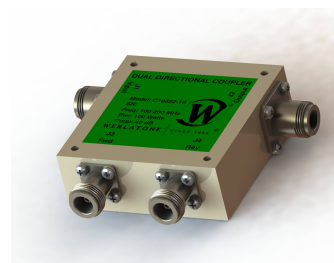
Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10322-10	N Female	N Female	N Female	N Female
C10322-12	N Female	N Female	SMA	SMA
C10322-13	N Female	N Female	BNC	BNC
C10322-102	SMA	SMA	SMA	SMA
C10322-302	TNC Female	TNC Female	SMA	SMA
C10322-712	N Male	N Female	SMA	SMA
C10322-714	N Male	N Female	N Female	F 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

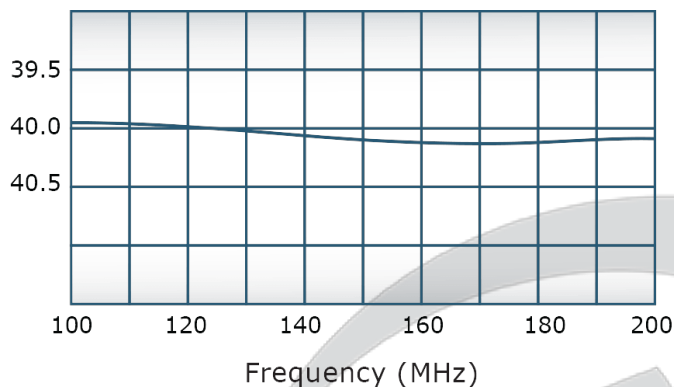


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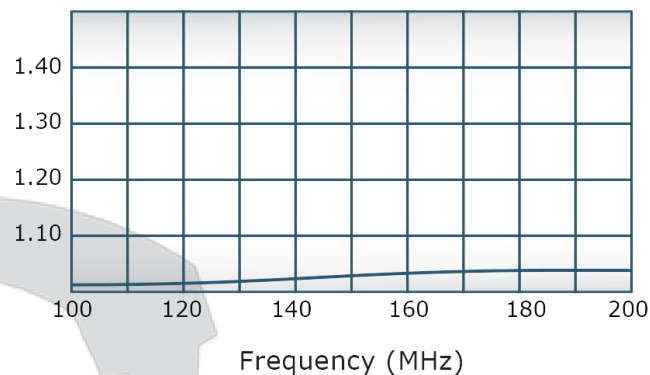
C10322

Performance Data (Specifications subject to change without notice):

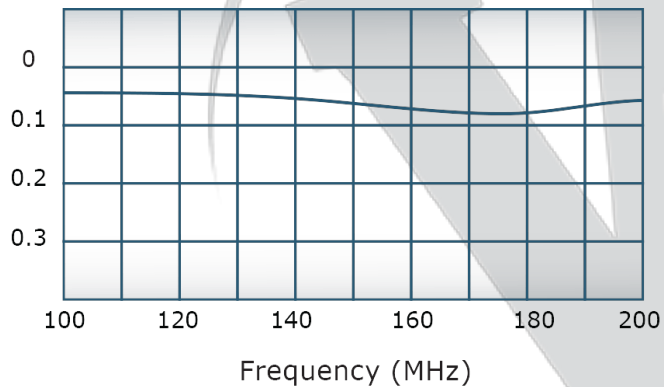
Coupling:



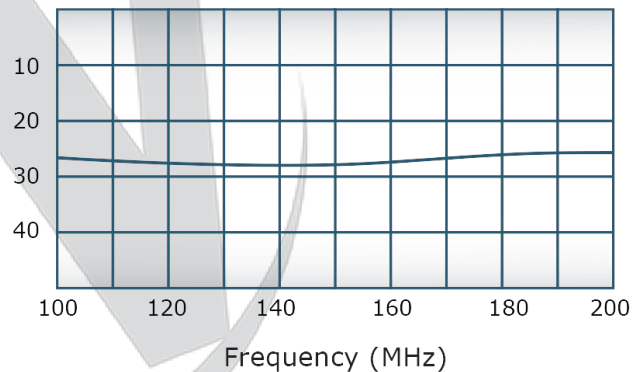
VSWR:



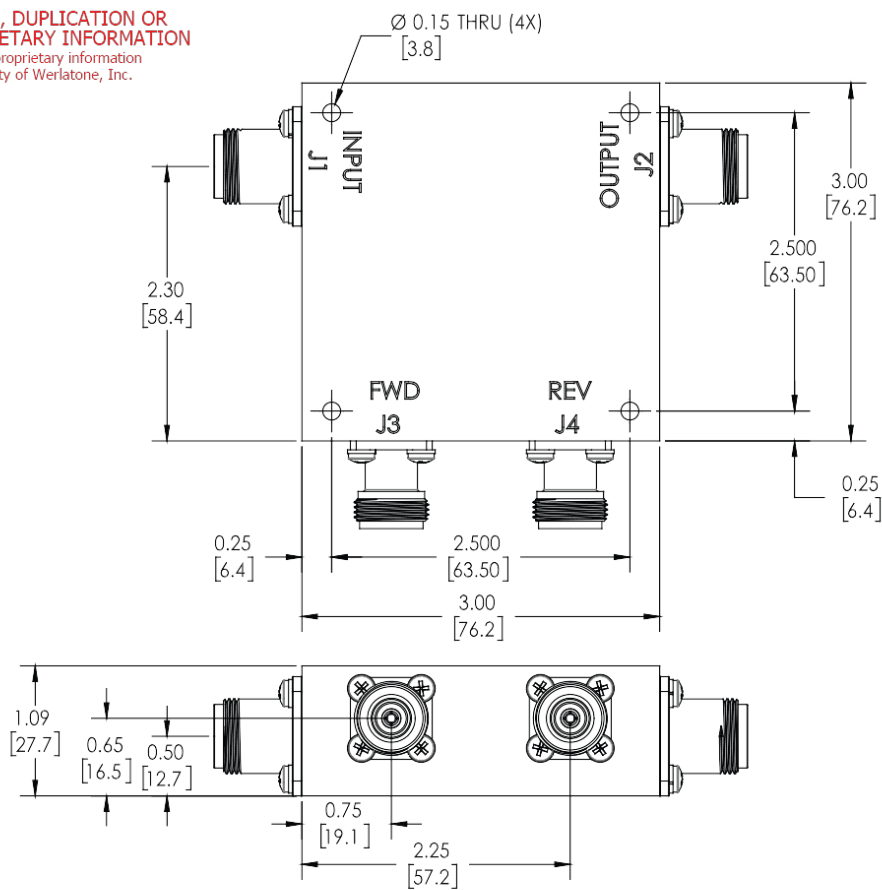
Insertion Loss:



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		OWN	DATE	 WERLATONE® SINCE 1965		17 Jon Barrett Rd Patterson, NY 12568	
NEXT ASSY	USED ON	<ul style="list-style-type: none">• INTERPRET DRAWING AS PER: STD-100• DIMENSIONING PER ASME Y14.5-2009• ARCHITECTURAL INFO FOR KEY ONLY• DIMENSIONS ARE IN INCHES• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES• TOLERANCES:		RH	7/5/2001	 WERLATONE® SINCE 1965		 WERLATONE® SINCE 1965	
		ANGLES: $\pm 2^\circ$ $\pm .05$ [13] $\pm .05$ [38]		CHK	DATE				
		<ul style="list-style-type: none">• REMOVE ALL BURS AND SHARP EDGES R.01 MAX• CONCENTRICITY MAXIMUM DIA. .002 FIM• MACHINE TOOL REGISTRATION .002 MAX		ENGR	DATE				
				MD	7/5/2001				
				DATE					
				QA		SIZE	CAGE CODE	DWG NO	RH
						B		10379-505	
				DATE		SCALE	1:1		SHEET 1 OF 1

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