

PRODUCT DATA SHEET

C10101

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: 800 - 2800 MHz
Power: 500 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.75 dB Max.
VSWR (ML): 1.30:1 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)
C10101-10	N Female	N Female	N Female	N Female
C10101-12	N Female	N Female	SMA	SMA
C10101-13	N Female	N Female	BNC	BNC
C10101-102	SMA	SMA	SMA	SMA
C10101-302	TNC Female	TNC Female	SMA	SMA
C10101-712	N Male	N Female	SMA	SMA
C10101-714	N Male	N Female	N Female	N Female

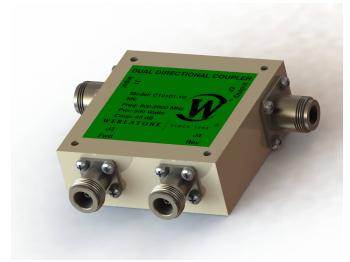
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C10101

Connectorized Directional Couplers

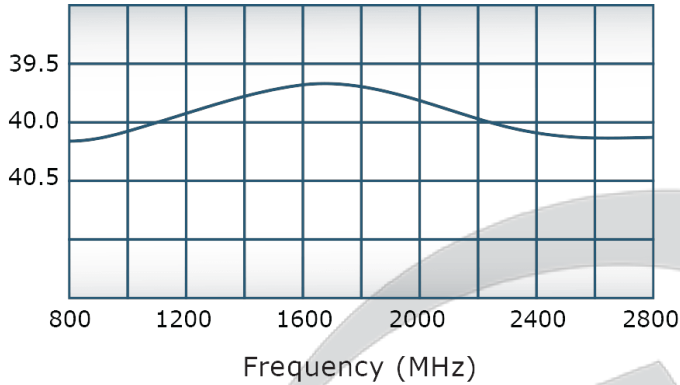


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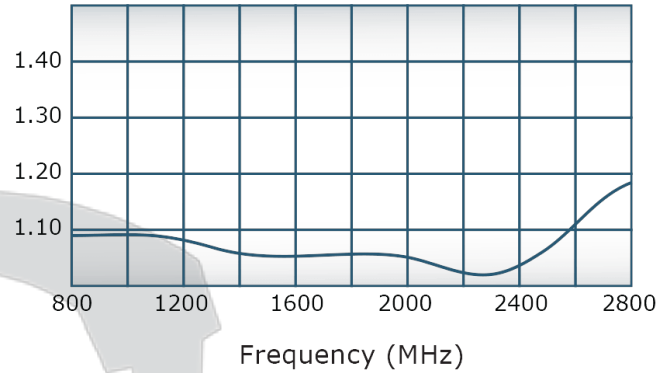
C10101

Performance Data (Specifications subject to change without notice):

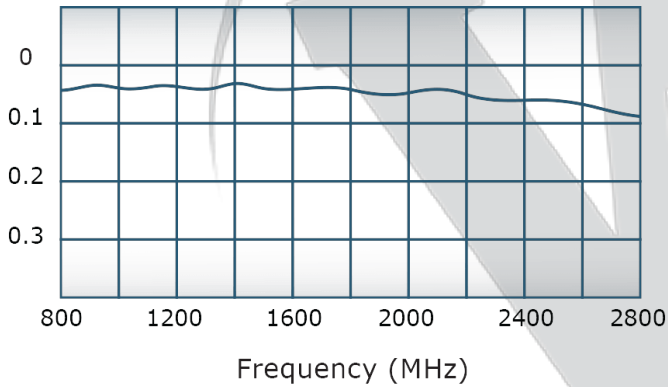
Coupling:



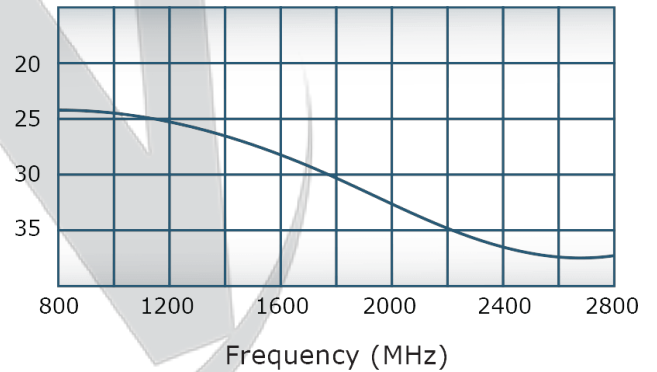
VSWR:



Insertion Loss:



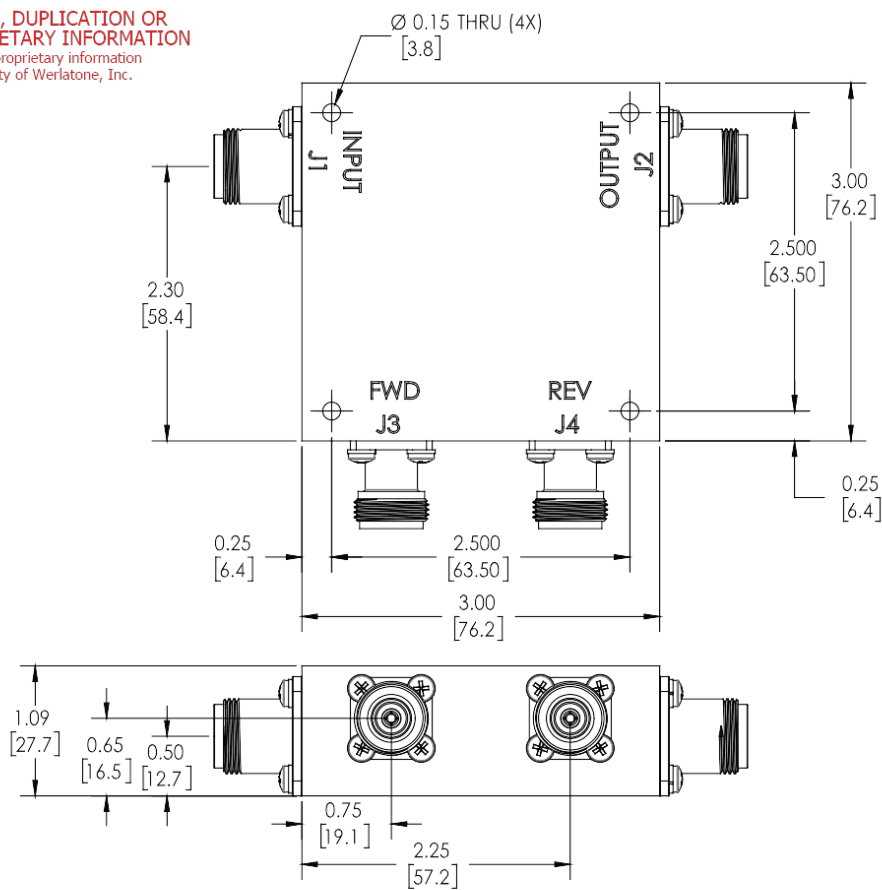
Directivity:



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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	• INTERPRET DRAWING AS PER MIL-STD-100		RH	7/5/2001		TITLE	OUTLINE
		• DIMENSIONING PER ASME Y14.5-2009		CHK	DATE			
		• DIMENSIONAL TIES FOR KEY ONLY						
		• DIMENSIONS ARE IN INCHES		BGR	DATE			
		• DIMENSIONAL LINES APPLY BEFORE PROCESSES		MJ	7/5/2001			
		• TOLERANCES:		RFR		SIZE CAGE CODE DWG NO 10379-505	R# DATE	
		ANGLES ± ° 3/8 L .005 [13]		QA	DATE			
		2 P. L .015 [38] • REMOVE ALL MARKS AND SHARP EDGES R.01 MAX • CONCENTRICITY MACHINED DIA. .002 FIM • MACHINE TOOL, REWORKING .002 MAX		RLSE	DATE			
APPLICATION		THIRD ANGLE PROJECTION 		SCALE		1:1	SHEET 1 OF 1	

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