

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

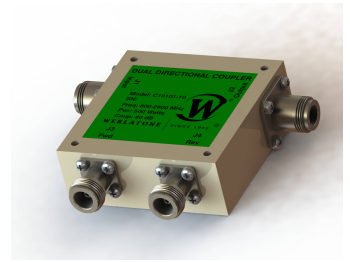
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C10101

Connectorized Directional Couplers

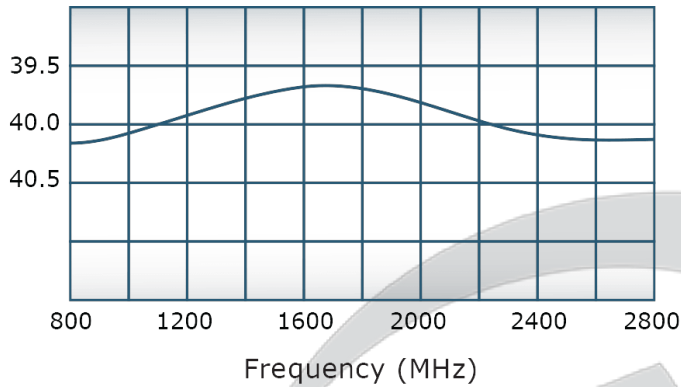


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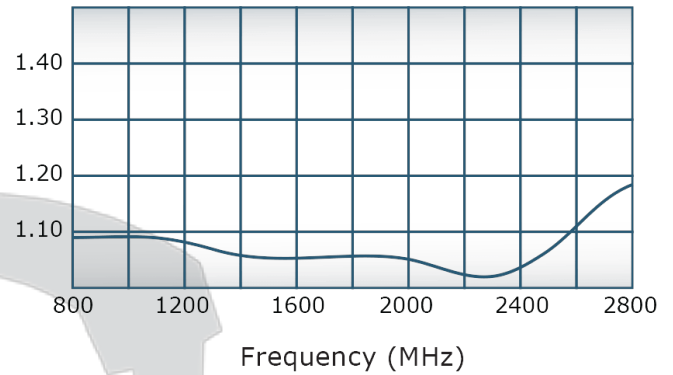
C10101

Performance Data (Specifications subject to change without notice):

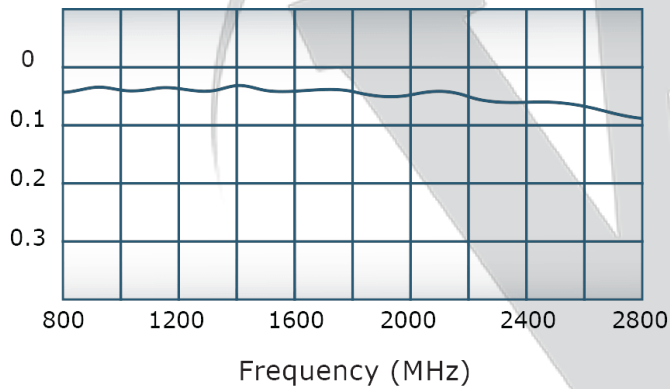
Coupling:



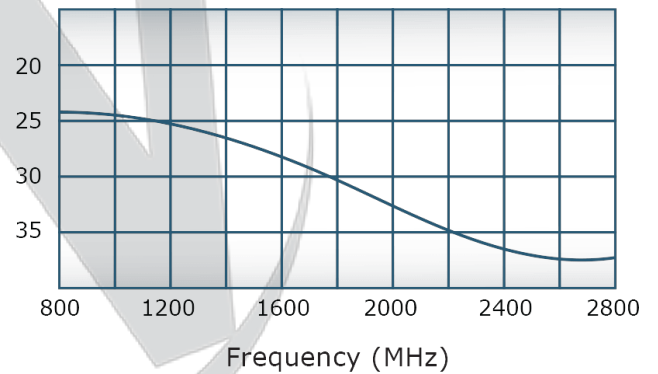
VSWR:



Insertion Loss:



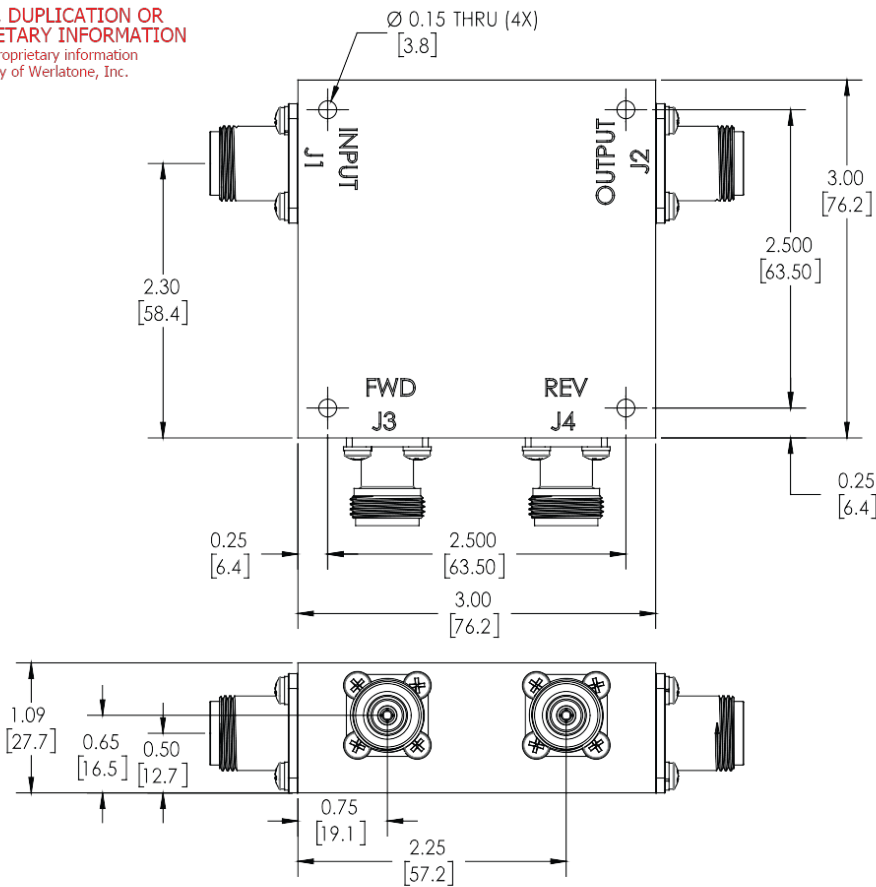
Directivity:



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

NOTES: UNLESS OTHERWISE SPECIFIED

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

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

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