
**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.

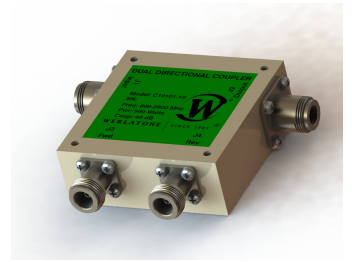
**Mechanical Specifications:**

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.

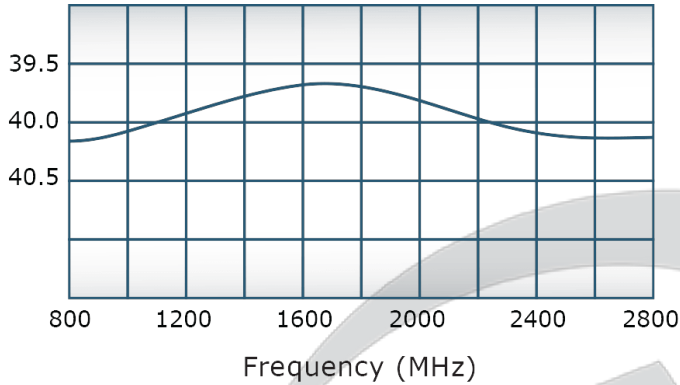


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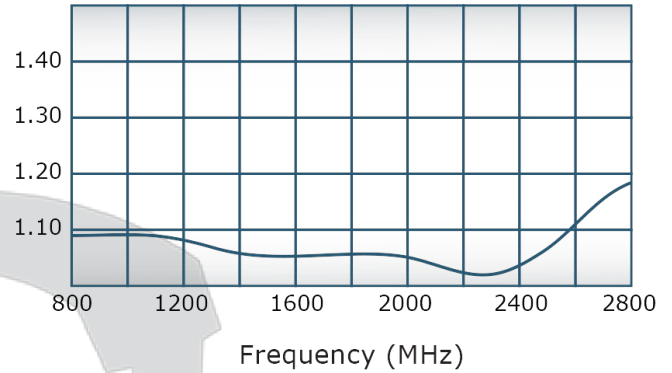
C10101

### Performance Data (Specifications subject to change without notice):

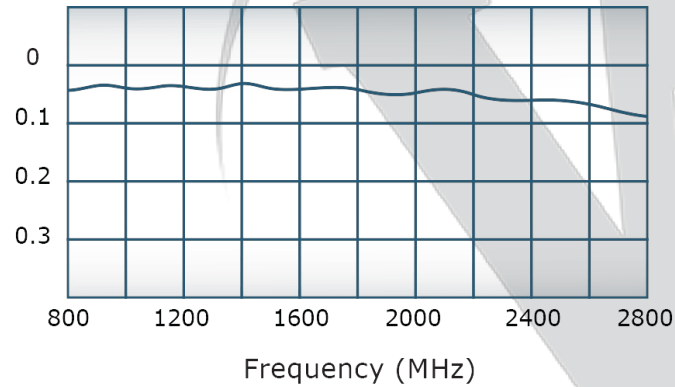
Coupling:



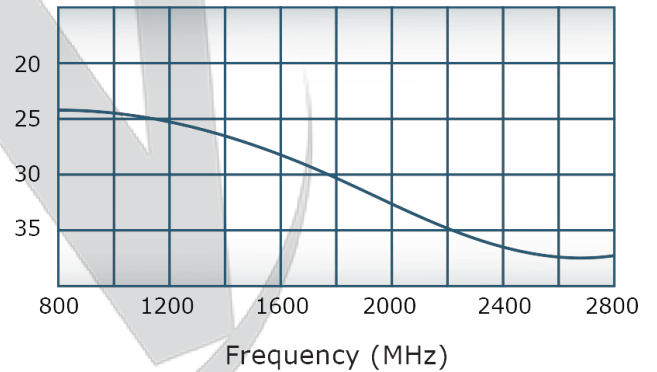
VSWR:



Insertion Loss:



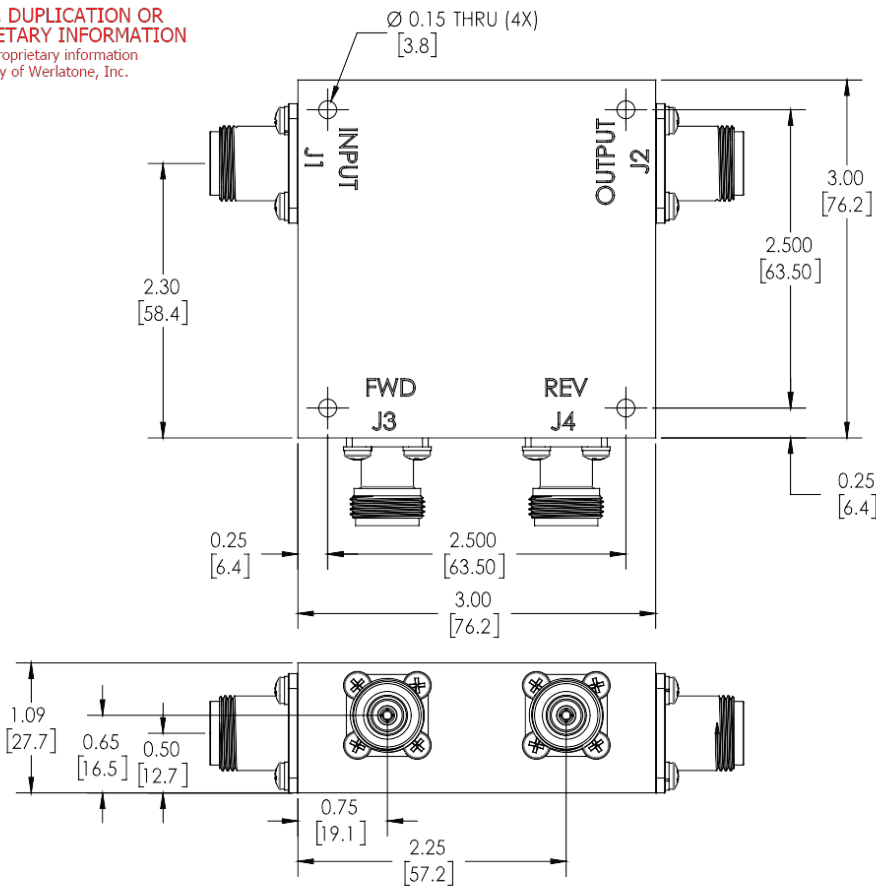
Directivity:



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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		
• PARENTHETICAL INFO FOR REF ONLY		ENGR	DATE	TITLE <b>OUTLINE</b>	
• DIMENSIONS ARE IN INCHES		MJ	7/5/2001		
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MPGR	DATE	SIZE	CAGE CODE
• TOLERANCES:		QA	DATE	B	10379-505
ANGLES: ± 2°		ELSE	DATE	SCALE	1:1
2 PL. ± .015 [1.3]					
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
• CONCENTRICITY MACHINED DIA: .002 FIM					
• MACHINE TOOL MISMATCH: .003 MAX					
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION			
APPLICATION		SHEET 1 OF 1			

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