



## PRODUCT DATA SHEET

C10364

**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: 700 - 6000 MHz  
Power: 500 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 1.0$  dB Max.  
VSWR (ML): 1.35:1 Max.  
Directivity: 15 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:  $-55^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$   
Storage Temperature:  $-60^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
Humidity: 95% Non-Condensing  
Size: 2.15 x 2.0 x 1.36"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10364-20	7/16 Female	7/16 Female	N Female	N Female
C10364-22	7/16 Female	7/16 Female	SMA	SMA
C10364-727	7/16 Male	7/16 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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# WERLATONE

Model C10364

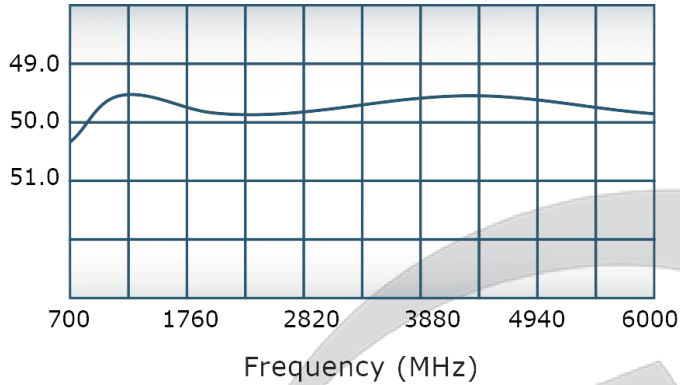


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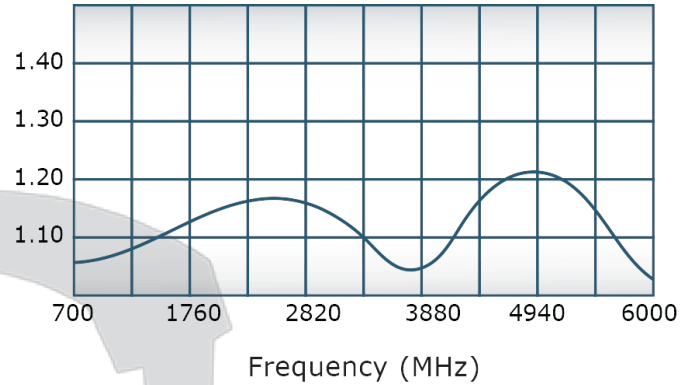
C10364

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

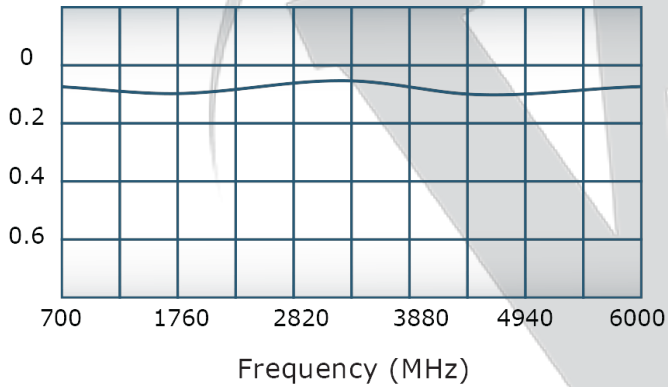
Coupling:



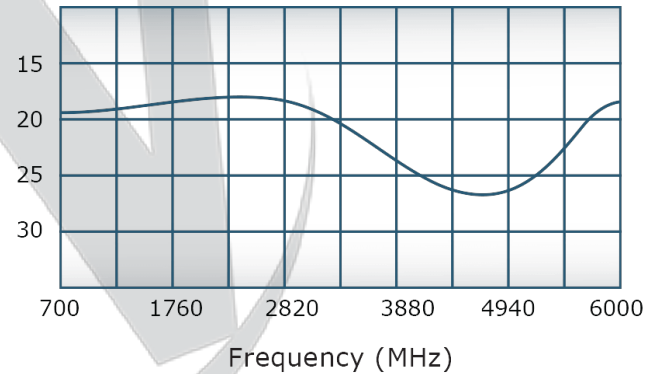
VSWR:



Insertion Loss:



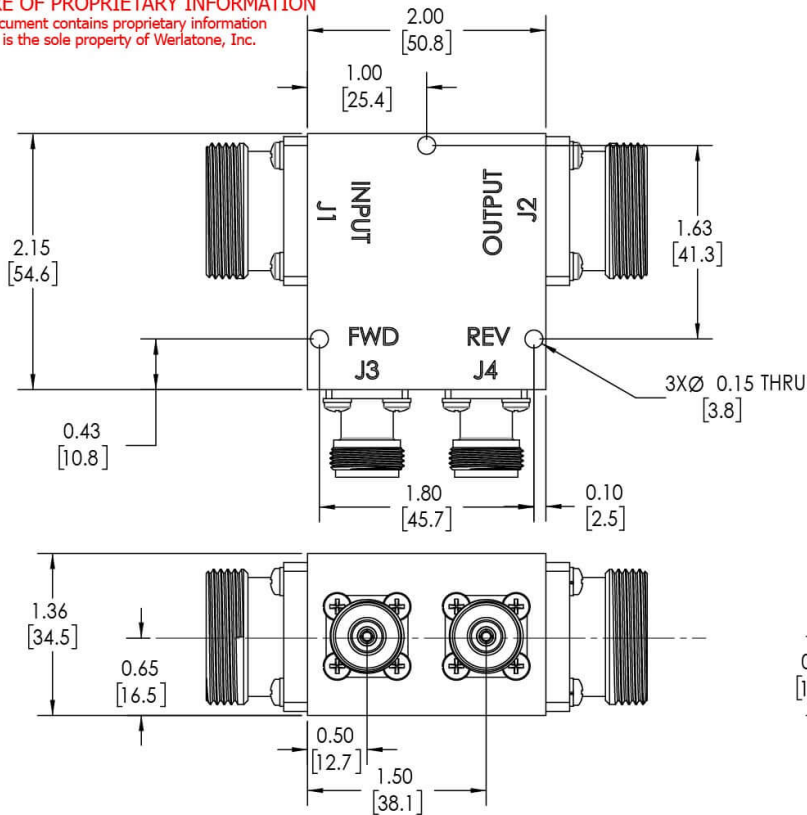
Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL-RELEASE	5/8/2015	BW
A	ECN 9696	3/25/19	RB

- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
  - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
  - CONNECTORS:**  
J1,J2: 7/16 FEMALE  
J3,J4: N FEMALE

<div>UNLESS OTHERWISE SPECIFIED</div> <div>INTERPRET DRAWING IAW MIL-STD-100</div> <div>DIMENSIONS PER ASME Y14.5M-2009</div> <div>PARENTHESES INFO FOR REF ONLY</div> <div>DIMENSIONS ARE IN INCHES</div> <div>DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</div> <div>TOLERANCES:</div> <div>    ANGLES ± 2°</div> <div>    3 PL ± .005 [13]</div> <div>    2 PL ± .015 [38]</div> <div>REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</div> <div>CONCENTRICITY MACHINED DIA. .002 FIM</div> <div>MACHINE TOOL MISMATCH .003 MAX</div>		OWN	DATE	<div><div><div></div></div><div>WERLATONE</div><div>SINCE 1965</div></div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>	
		SD	3/25/2019		
		CHK	DATE		
		CS	3/25/2019		
		ENGR	DATE		
<div>NEXT ASSY</div> <div>USED ON</div>		TITLE	DWG NO		REV
		OUTLINE			
		B	CAGE CODE	21316-500	A
		SCALE		SHEET 1 OF 1	
		1:1			
APPLICATION		THIRD ANGLE PROJECTION	RLSE	DATE	

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