



## PRODUCT DATA SHEET

C5544

**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: 1 - 500 MHz  
Power: 30 W CW  
Coupling:  $30 \pm 1.0$  dB Max.  
Flatness:  $\pm 0.5$  dB Max.  
Insertion Loss: 0.9 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: 5.2 x 2.67 x 1.69"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5544-10	N Female	N Female	N Female	N Female
C5544-12	N Female	N Female	SMA	SMA
C5544-13	N Female	N Female	BNC	BNC
C5544-102	SMA	SMA	SMA	SMA

**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 C5544

Connectorized Directional Couplers

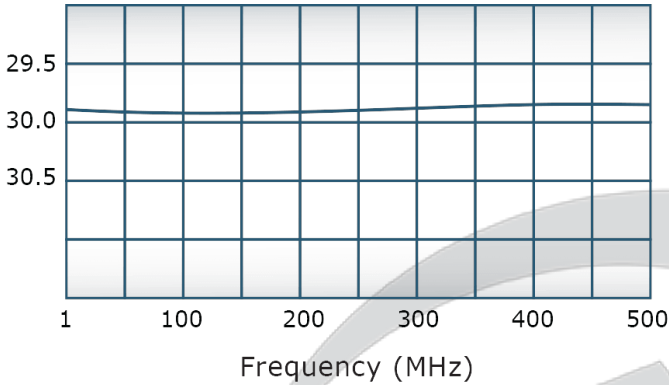


## PRODUCT DATA SHEET

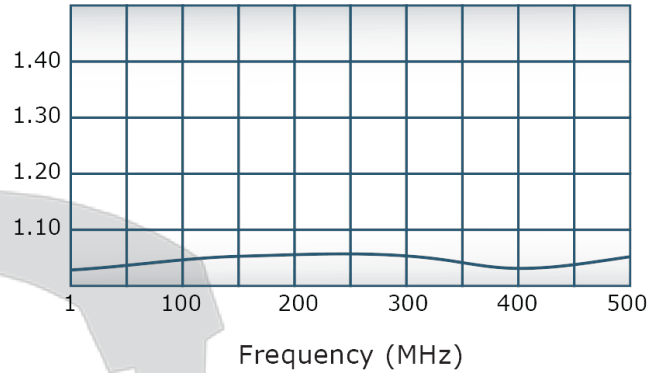
C5544

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

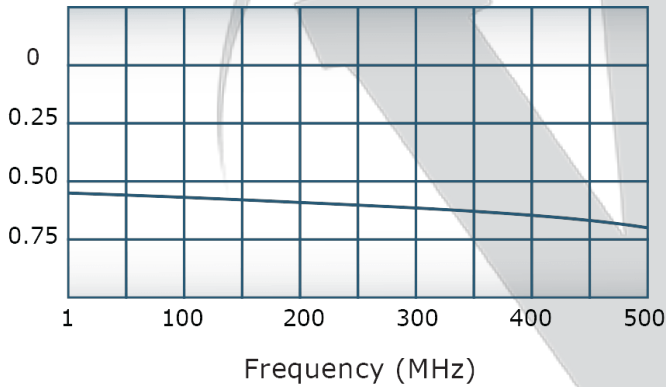
Coupling:



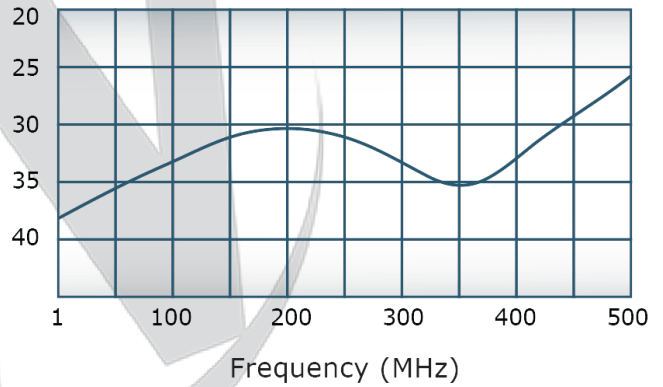
VSWR:



Insertion Loss:



Directivity:



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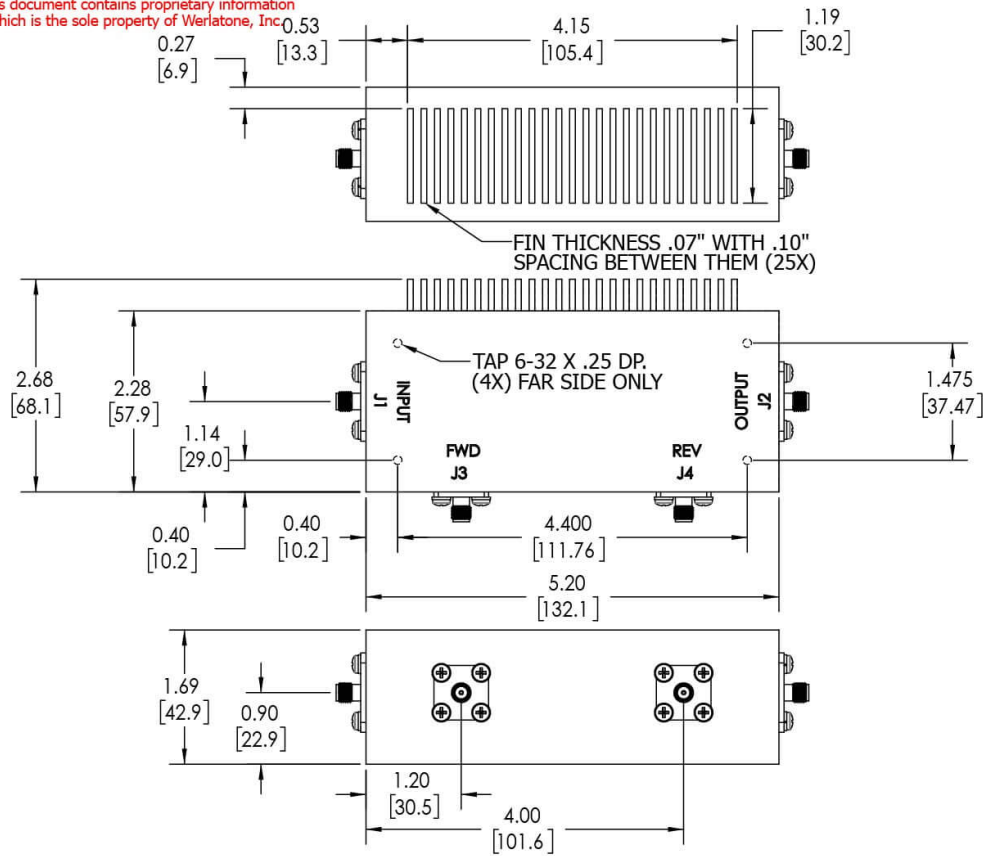
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**  
**J1-J4: SMA FEMALE**



UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE  SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/2019			
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE	<b>OUTLINE</b>	
PARENTHESES FOR REF ONLY		CS	2/11/2019			
DIMENSIONS ARE IN INCHES		ENGR	DATE	B	SIZE CAGE CODE DWG NO <b>10407-501</b>	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		BW	9/13/1996			
TOLERANCES:		INFR	DATE	SCALE	1:1.5	
ANGLES ± 2°		QA	DATE			
3 PL ± .005 [13]		RLSE	DATE	THIRD ANGLE PROJECTION 		
2 PL ± .015 [38]						
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX						
CONCENTRICITY MACHINED DIA. .002 FIM						
MACHINE TOOL MISMATCH .003 MAX						
NEXT ASSY	USED ON	APPLICATION				
		SHEET 1 OF 1				

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