



## PRODUCT DATA SHEET

C5514

**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: 20 - 500 MHz  
Power: 200 W CW  
Coupling:  $40 \pm 1.0$  dB Max.  
Insertion Loss: 0.35 dB Max.  
Flatness:  $\pm 0.5$  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: 5.2 x 2.67 x 1.69"

### Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5514-10	N Female	N Female	N Female	N Female
C5514-12	N Female	N Female	SMA	SMA
C5514-13	N Female	N Female	BNC	BNC
C5514-102	SMA	SMA	SMA	SMA
C5514-610	N Female	N Male	N Female	N Female
C5514-614	N Female	N Male	SMA	SMA
C5514-714	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.



# WERLATONE

Model C5514

Connectorized Directional Couplers

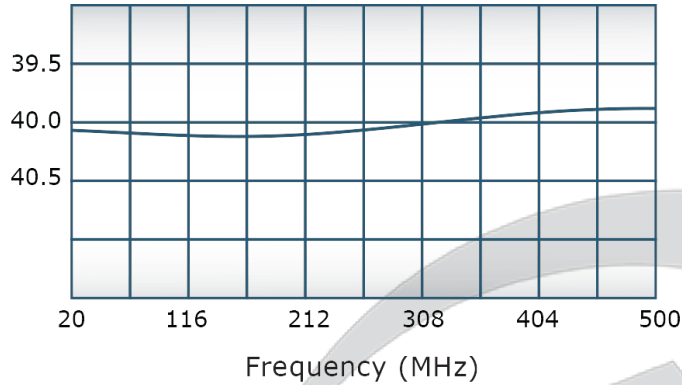


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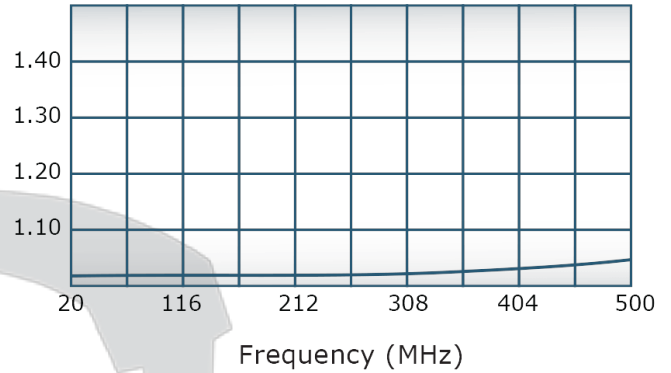
C5514

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

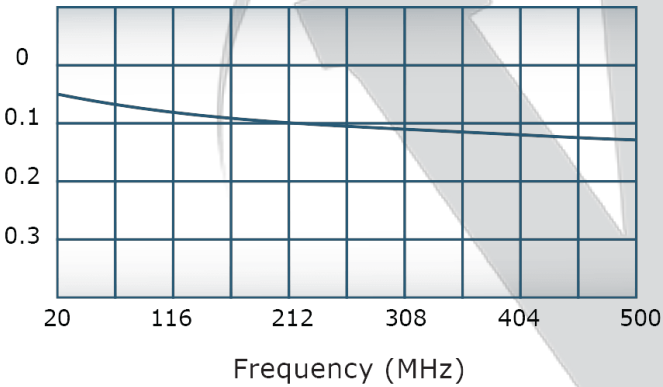
Coupling:



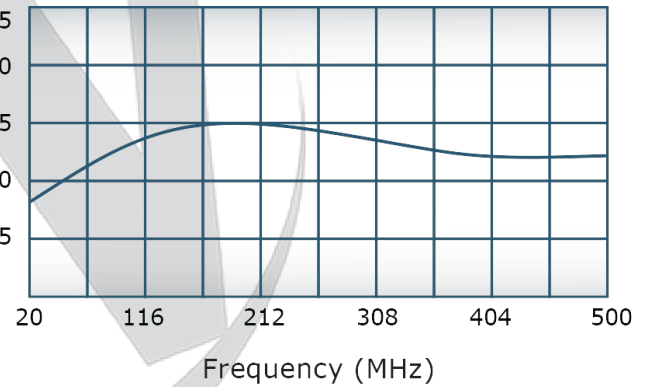
VSWR:



Insertion Loss:



Directivity:



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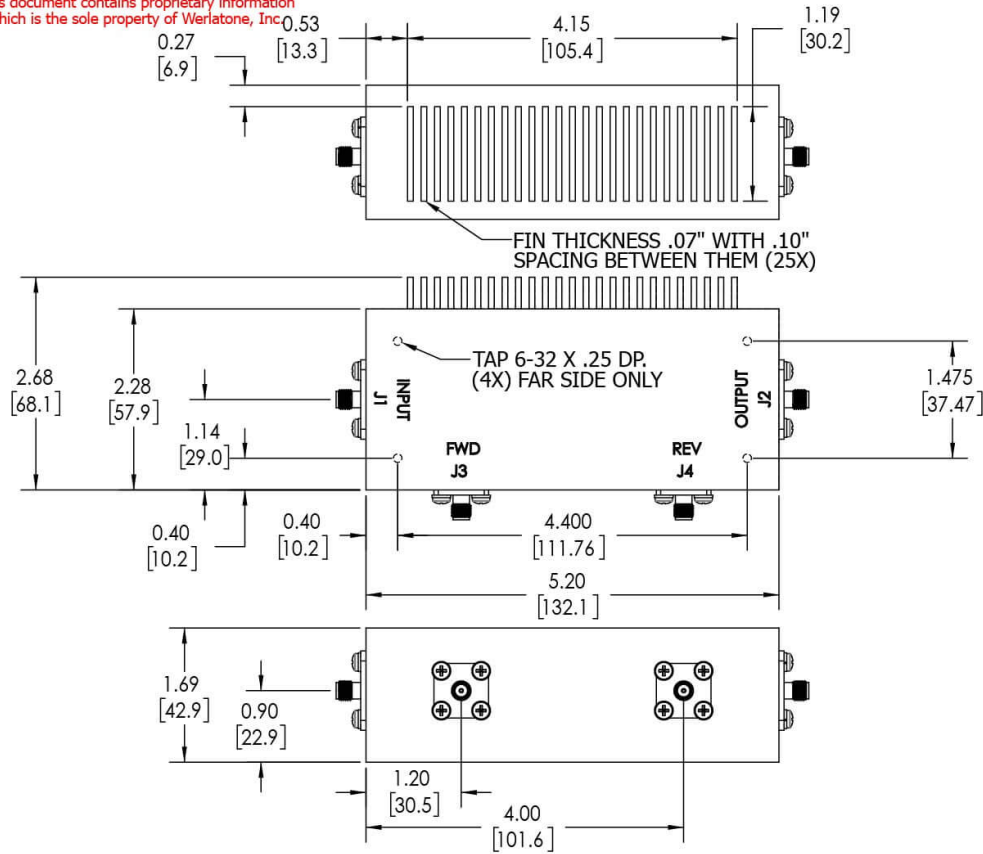
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

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

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