


**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 ± 1.0 dB Max.  
Insertion Loss: 0.35 dB Max.  
Flatness: ± 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

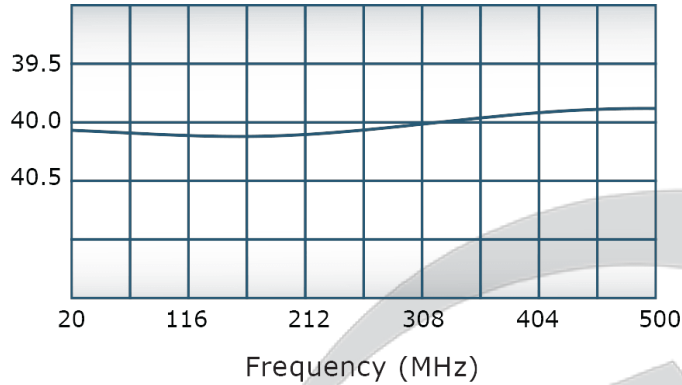


## PRODUCT DATA SHEET

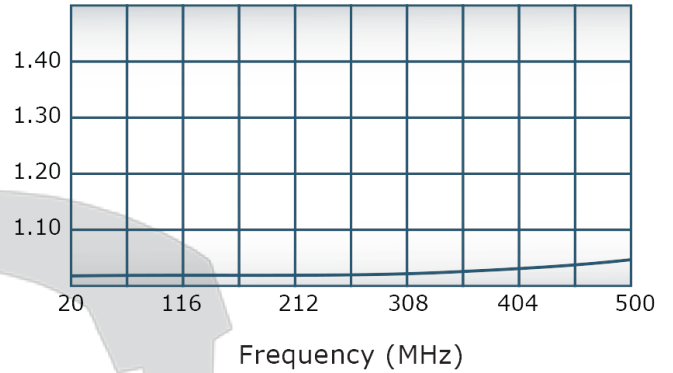
C5514

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

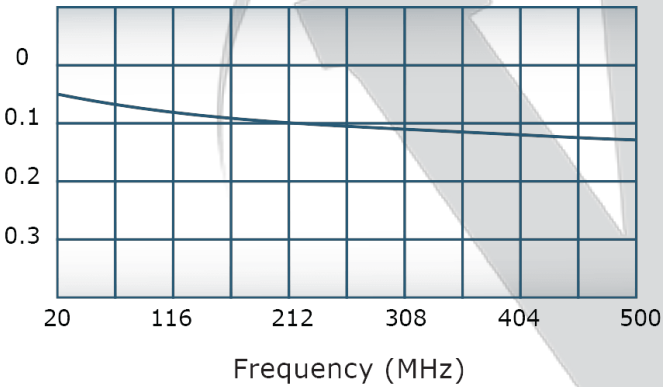
Coupling:



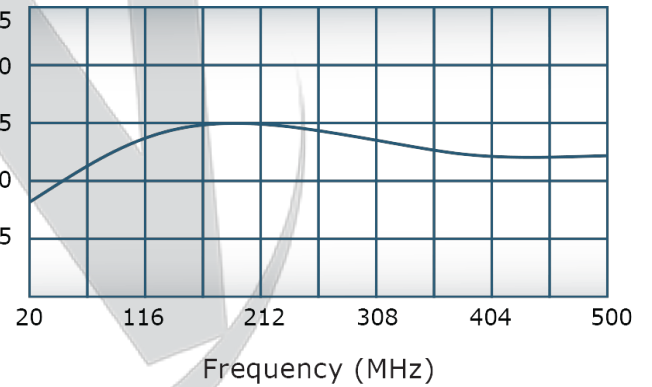
VSWR:



Insertion Loss:



Directivity:



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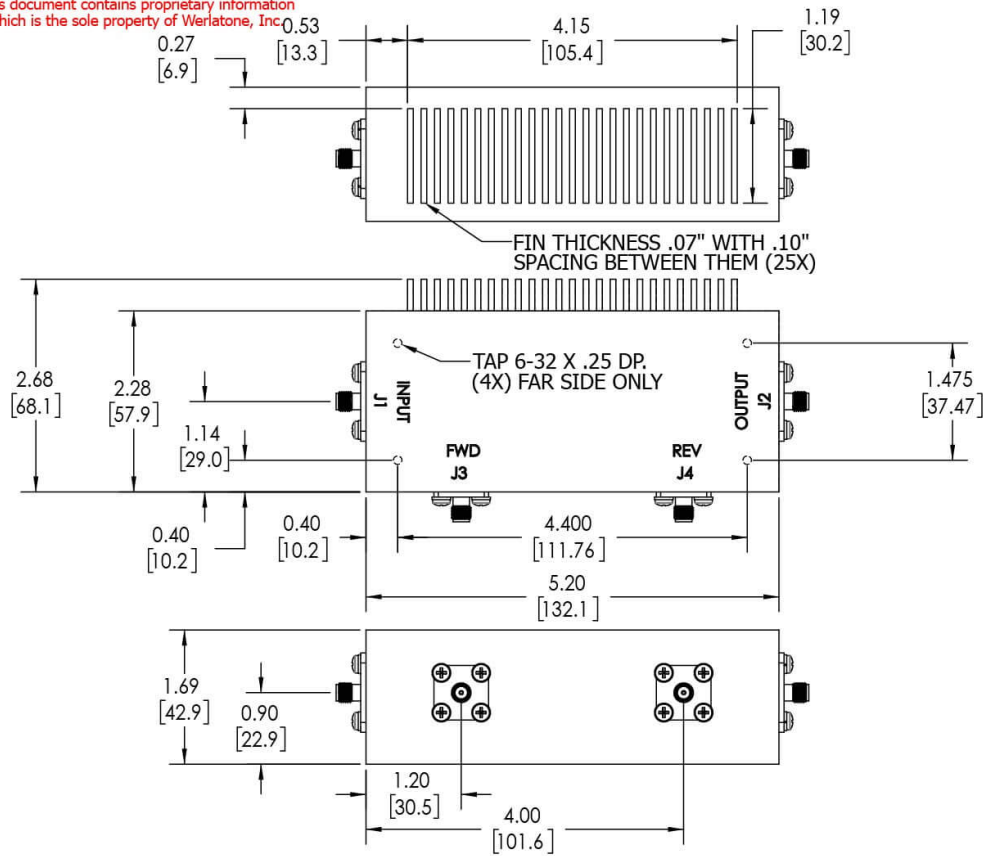
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

**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	 WERLATONE <sup>®</sup> SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN ACC. WITH MIL-STD-100 DIMENSIONS PER ASME Y14.5M-2009 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.		SD	2/11/2019			REV A
				CHK	DATE			
				CS	2/11/2019			
				ENGR	DATE	TITLE		
				NGFR	9/13/1996	OUTLINE		
				QA	DATE	SIZE	CAGE CODE	DWG NO
				RLSE	DATE	B	10407-501	
NEXT ASSY		USED ON				SCALE	SHEET 1 OF 1	
APPLICATION		THIRD ANGLE PROJECTION						

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