



## PRODUCT DATA SHEET

C5377

**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: 0.01 - 1000 MHz  
Power: 200 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Insertion Loss: 0.6 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"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5377-10	N Female	N Female	N Female	N Female
C5377-12	N Female	N Female	SMA	SMA
C5377-13	N Female	N Female	BNC	BNC
C5377-102	SMA	SMA	SMA	SMA
C5377-714	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.



# WERLATONE

Model C5377

Connectorized Directional Couplers

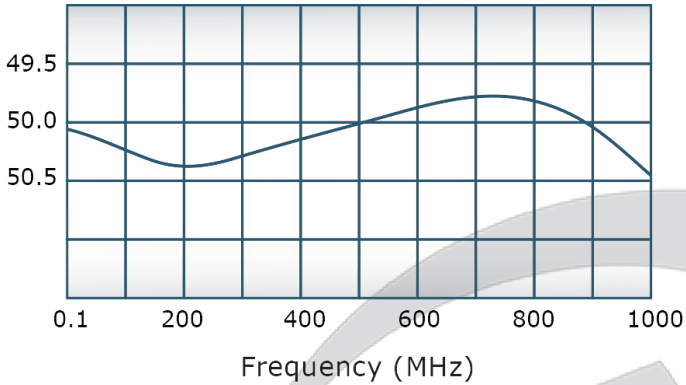


## PRODUCT DATA SHEET

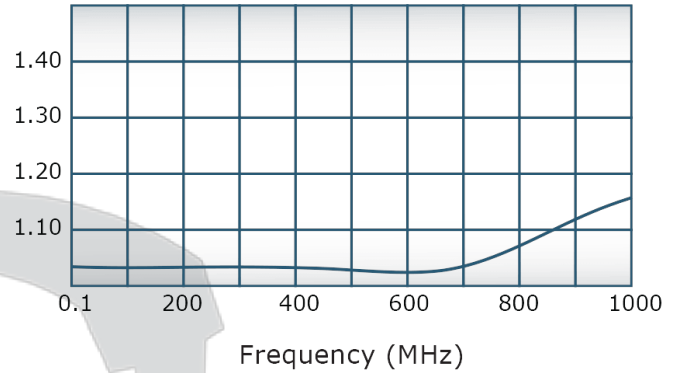
C5377

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

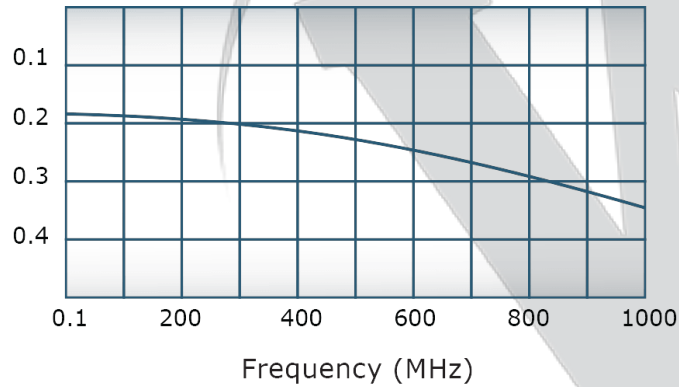
Coupling:



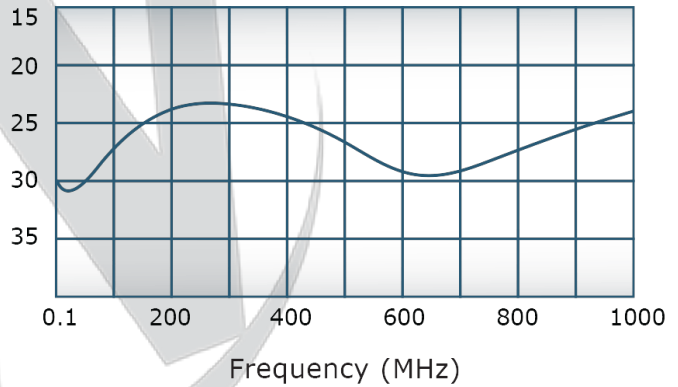
VSWR:



Insertion Loss:



Directivity:



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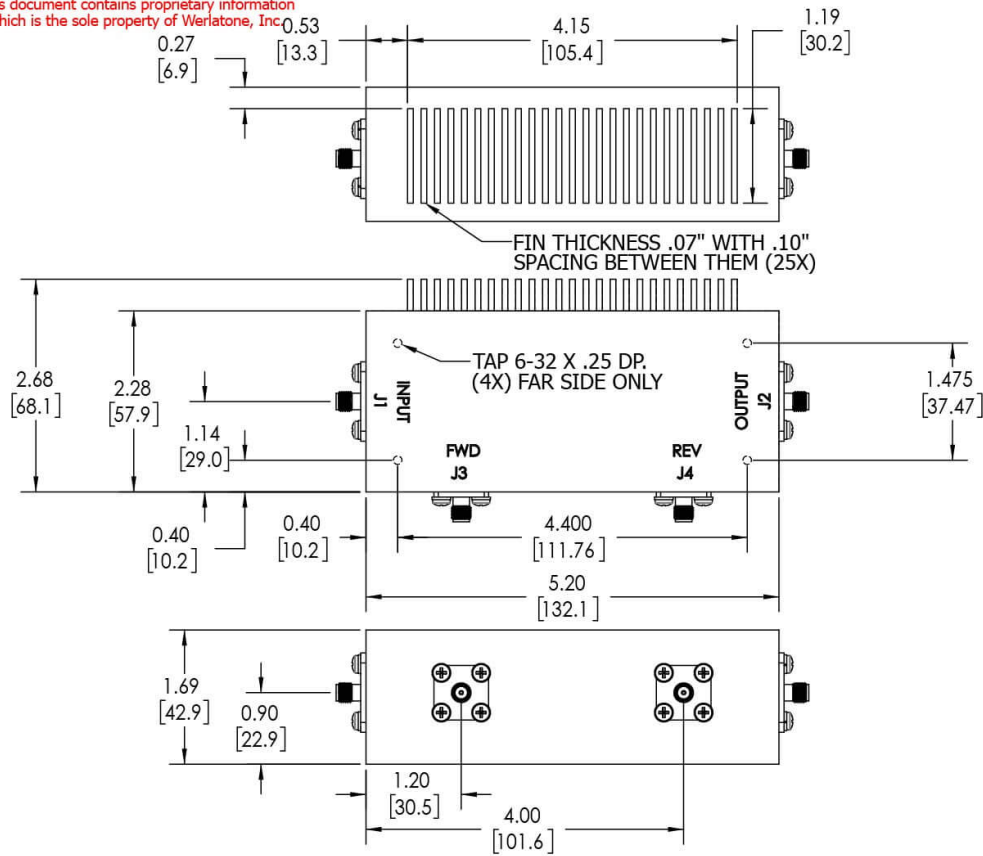
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

**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	 WERLATONE  SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE				
		PARENTHESES ARE IN INCHES		CS	2/11/2019	 WERLATONE  SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		ENGR	DATE				
		TOLERANCES:		BW	9/13/1996	 WERLATONE  SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		ANGLES ± 2°		INFR	DATE				
		3 PL ± .005 [13]		QA	DATE	 WERLATONE  SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		2 PL ± .015 [38]		RLSE	DATE				
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				 WERLATONE  SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		CONCENTRICITY MACHINED DIA. .002 FIM							
		MACHINE TOOL MISMATCH .003 MAX				 WERLATONE  SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	

NEXT ASSY		USED ON				SIZE		CAGE CODE		DWG NO		REV	
APPLICATION		THIRD ANGLE PROJECTION				SCALE		10407-501				A	
						1:1.5						SHEET 1 OF 1	

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