



## PRODUCT DATA SHEET

C5339

- 1. 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 - 400 MHz  
 Power: 200 W CW  
 Coupling:  $40 \pm 1.0$  dB Max.  
 Insertion Loss: 0.5 dB Max.  
 Flatness:  $\pm 0.5$  dB Max.  
 VSWR (ML): 1.25:1 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 2.28 x 1.69"

### Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5339-10	N Female	N Female	N Female	N Female
C5339-12	N Female	N Female	SMA	SMA
C5339-13	N Female	N Female	BNC	BNC
C5339-610	N Female	N Male	N Female	N Female
C5339-714	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 C5339

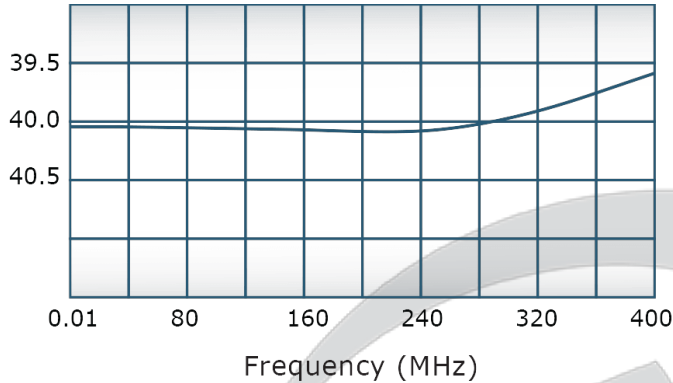


## PRODUCT DATA SHEET

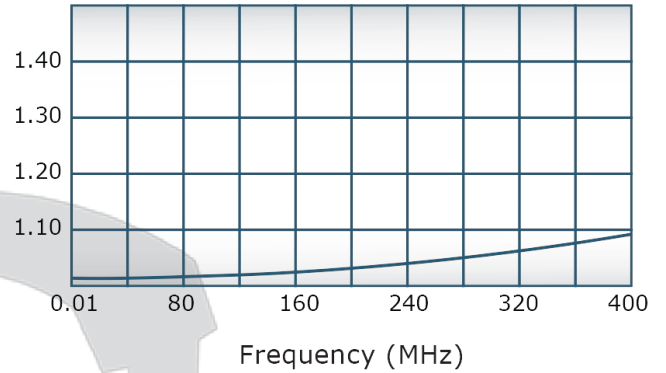
C5339

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

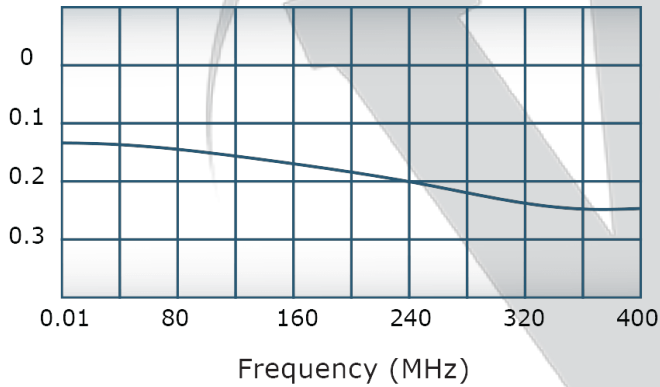
Coupling:



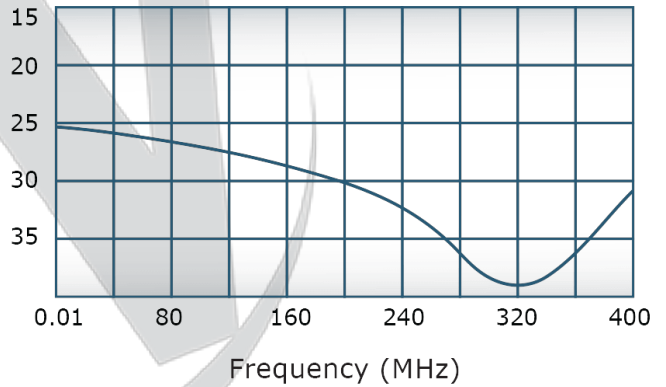
VSWR:



Insertion Loss:



Directivity:

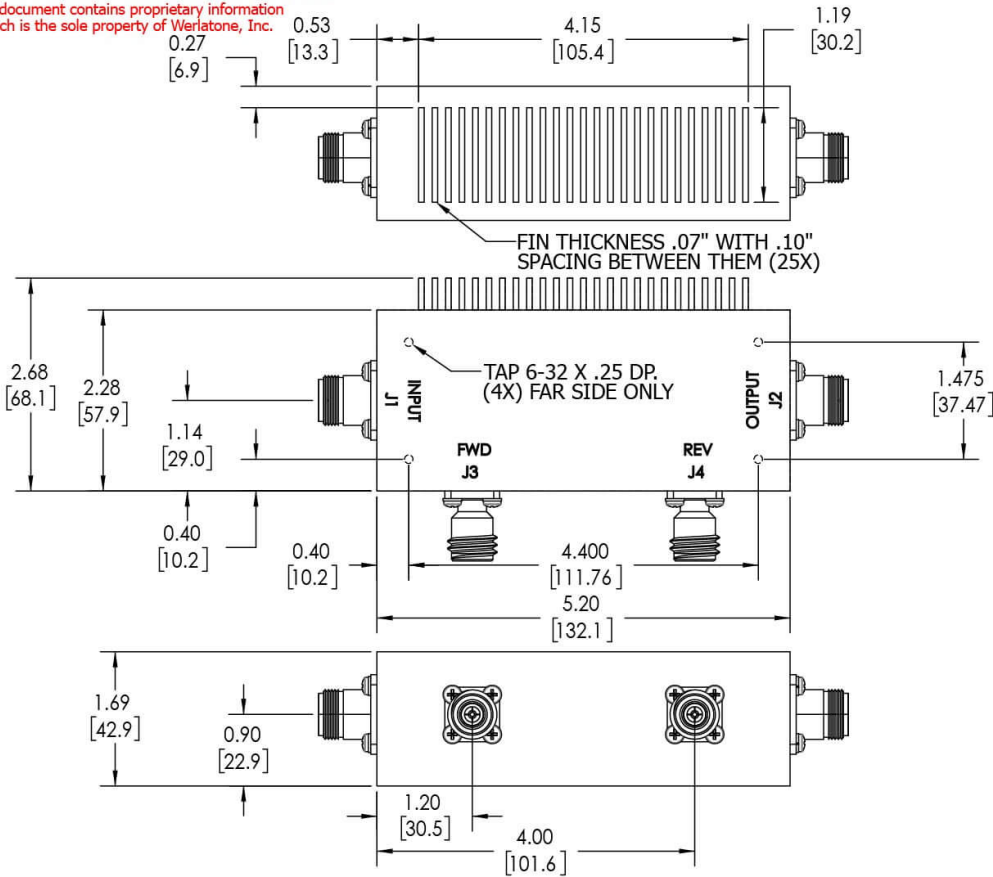


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**REVISION HISTORY**

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, J2: N FEMALE  
J3, J4: N 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				
		PARENTHESES INFO FOR REF ONLY		CS	2/11/2019		TITLE		
		DIMENSIONS ARE IN INCHES		ENGR	DATE				
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES							
		TOLERANCES:			2/27/2002				
		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							
NEXT ASSY		USED ON		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
						B		10407-505	A
APPLICATION		THIRD ANGLE PROJECTION		RLSE	DATE	SCALE			SHEET 1 OF 1
						1:1.5			

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