

## PRODUCT DATA SHEET

C5094

**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: 400 - 1000 MHz  
Power: 400 W CW  
Coupling:  $30 \pm 1.0$  dB Max.  
Flatness:  $\pm 0.25$  dB Max.  
Insertion Loss: 0.2 dB Max.  
VSWR (ML): 1.15:1 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: 3.0 x 3.0 x 1.09"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5094-10	N Female	N Female	N Female	N Female
C5094-12	N Female	N Female	SMA	SMA
C5094-13	N Female	N Female	BNC	BNC
C5094-102	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.

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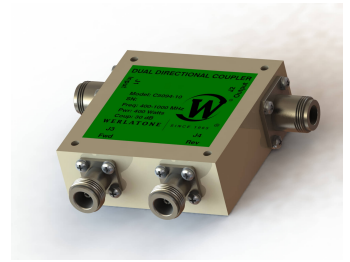
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



# WERLATONE

Model C5094

Connectorized Directional Couplers

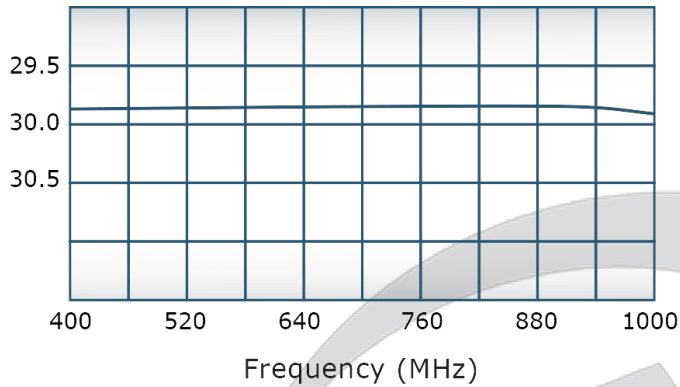


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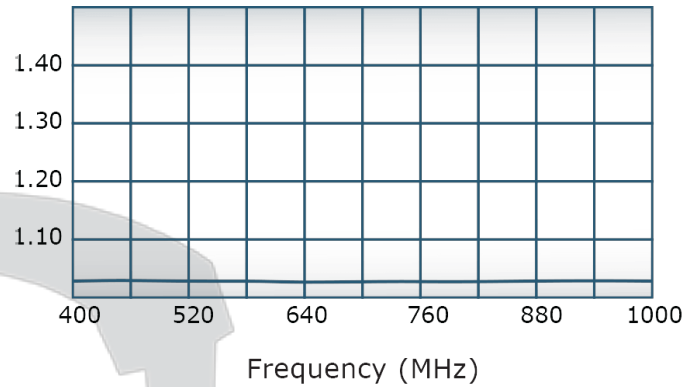
C5094

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

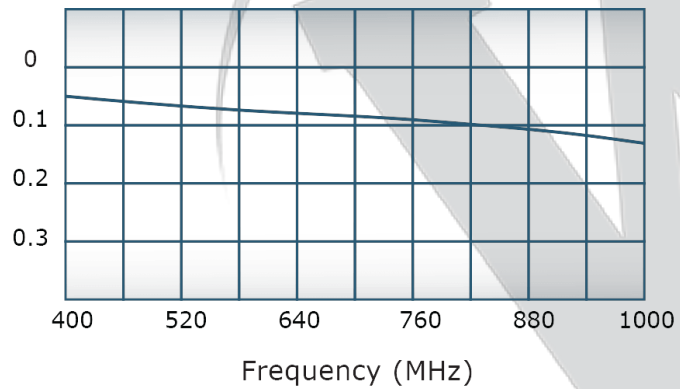
Coupling:



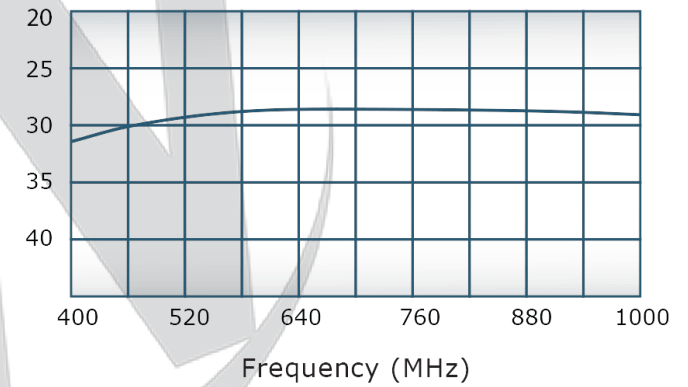
VSWR:



Insertion Loss:



Directivity:



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## REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL 5541F TYPE I CLASS 3 (YELLOW IRIDITE)

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 <b>WERLATONE® SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12568	
		• INTERPRET DRAWING AS PER: STD-100		RH	7/5/2001			
		• DIMENSIONING PER ASME Y14.5-2009		CHK	DATE			
		• ARCHITECTURAL UNITS FOR KEY ONLY						
		• DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE		
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MD	7/5/2001	<h1>OUTLINE</h1>		
		• TOLERANCES:				SIZE	CAGE CODE	DWG NO
		ANGLES ± 2° 2 PL ± .002 [13] 3 PL ± .005 [38]		QA		<b>10379-505</b>		
		• REMOVE ALL BURS AND SHARP EDGES R.25 MAX				SCALE		
		• CONCENTRICITY MACHINED DIA. .002 FIM		RLSE	DATE	<b>1:1</b>		
		• MACHINE TOOL REGISTRATION .002 MAX				<b>SHEET 1 OF 1</b>		
NEXT ASSY		USED ON						
APPLICATION		THIRD ANGLE PROJECTION 						

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