

## PRODUCT DATA SHEET

C9721

**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: 500 - 4000 MHz  
 Power: 300 W CW  
 Coupling:  $40 \pm 1.0$  dB Max.  
 Insertion Loss: 0.2 dB Max.  
 Flatness:  $\pm 0.75$  dB Max.  
 VSWR (ML): 1.30:1 Max.  
 Directivity: 15 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)
C9721-10	N Female	N Female	N Female	N Female
C9721-12	N Female	N Female	SMA	SMA
C9721-302	TNC Female	TNC Female	SMA	SMA
C9721-714	N Male	N Female	N Female	N Female
C9721-726	7/16 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.

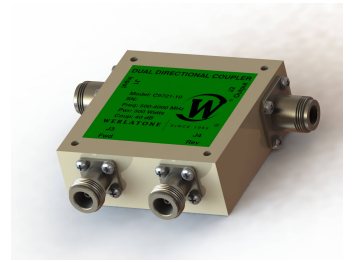
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# WERLATONE

Model C9721

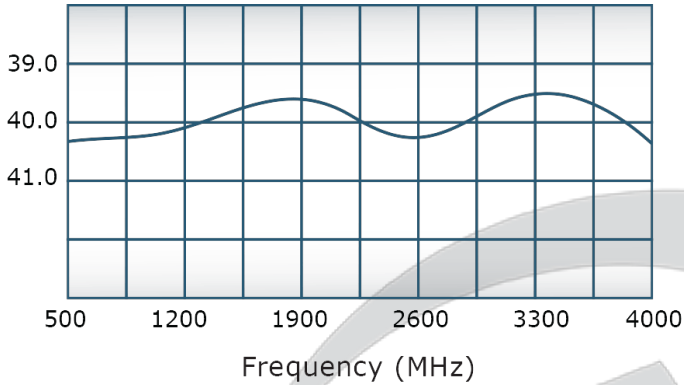


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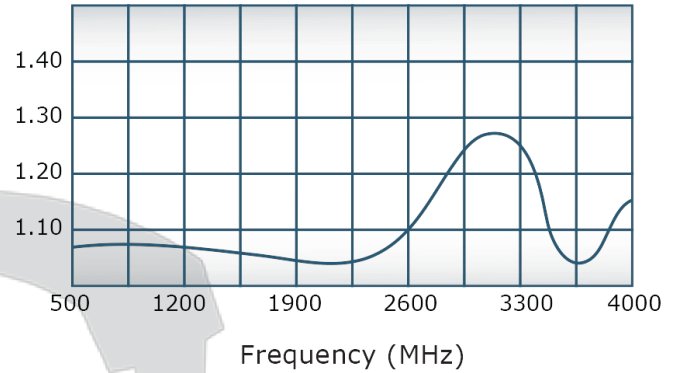
C9721

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

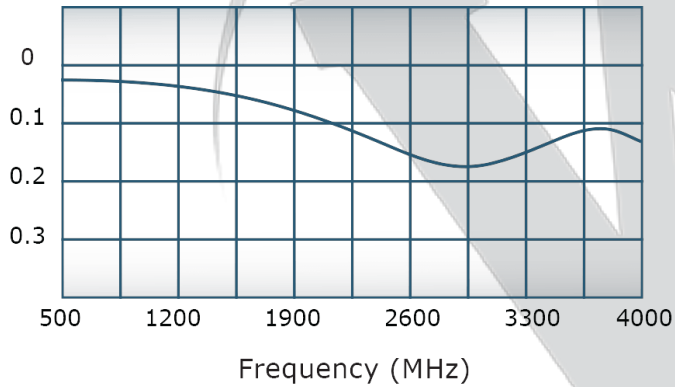
Coupling:



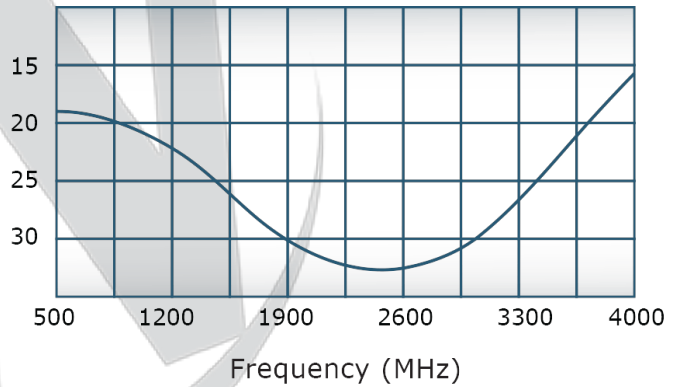
VSWR:



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	 WERLATON® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12568		
		<ul style="list-style-type: none"><li>• INTERPRET DRAWING AS PER: STD-100</li><li>• OVERENGINEERING PER ASME 13.2-2009</li><li>• PREDEFINITE TWC FOR RST ONLY</li><li>• DIMENSIONS ARE IN INCHES</li><li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li><li>• TOLERANCES:     ANGLES: ± 2°     2 PL. ± .005 [1.3]     3 PL. ± .015 [3.8]</li><li>• REMOVE ALL BURRS AND SHARP EDGES R.01 MIN</li><li>• CONCENTRICITY MACHINED DIA. .002 FIM</li><li>• MACHINE TOOL REFINISH .003 MAX</li></ul>		RH	7/5/2001		 WERLATON® SINCE 1965		
				CHK	DATE				
				ENGR	DATE				
				RFD	7/5/2001				
				REFGR	DATE	OUTLINE			
				QA	DATE	SIZE	CAGE CODE	DWG NO	REV
				RELSE	DATE	B		10379-505	A
NEXT ASSY	USED ON					SCALE	1:1		SHEET 1 OF 1
APPLICATION		THIRD ANGLE PROJECTION 							

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