

## PRODUCT DATA SHEET

C6755

**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: 470 - 860 MHz  
 Power: 250 W CW  
 Coupling:  $40 \pm 1.0$  dB Max.  
 Insertion Loss: 0.2 dB Max.  
 Flatness:  $\pm 0.3$  dB Max.  
 VSWR (ML): 1.15:1 Max.  
 Directivity: 20 dB Min.

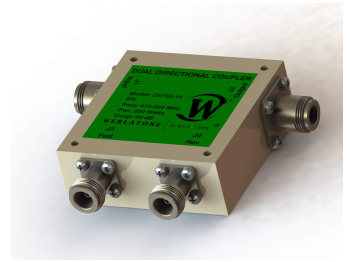
### Mechanical Specifications:

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)
C6755-13	N Female	N Female	BNC	BNC

**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.

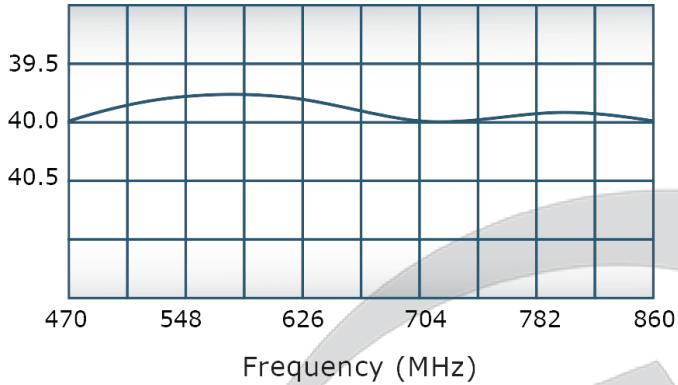


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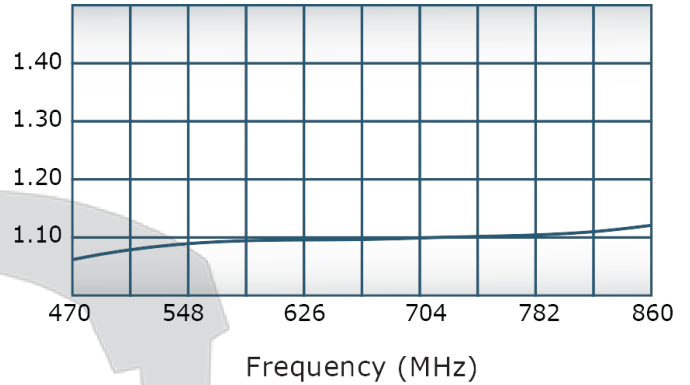
C6755

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

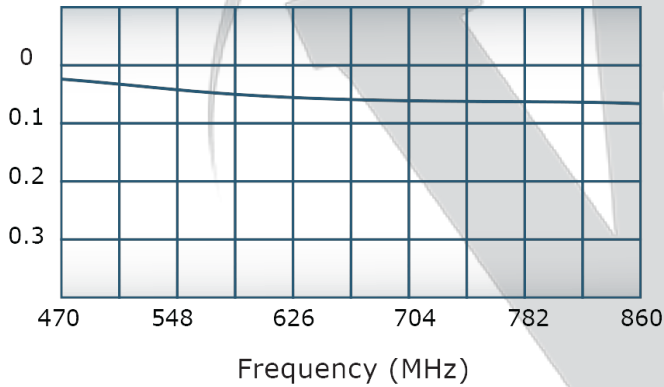
Coupling:



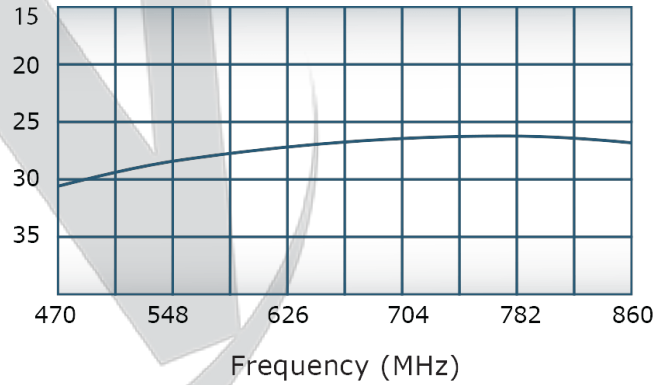
VSWR:



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	
NEXT ASSY	USED ON	• INTERPRET DRAWING AS PER STD-100	RH	7/5/2001	 <b>WERLATONE® SINCE 1965</b>		TITLE	
		• DIMENSIONING PER ASME Y14.5-2009	CHK	DATE				
		• DIMENSIONAL INFO FOR KEY ONLY	ENGR	DATE				
		• DIMENSIONS ARE IN INCHES	MD	7/5/2001	 <b>WERLATONE® SINCE 1965</b>	<h1>OUTLINE</h1>	SIZE    CAGE CODE    DWG NO <b>B                      10379-505</b>	PART NO <b>10379-505</b>
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	QA	DATE				
		• TOLERANCES:	RLSE	DATE				
		ANGLES ± 2° ± .015 (1:3) ± .015 (1:20) ± .015 (1:50)						
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX						
		• CONCENTRICITY MAXIMUM DIA. .002 FIM						
		• MACHINE TOOL DEVIATION .002 MAX						
APPLICATION		THIRD ANGLE PROJECTION 		SCALE		1:1		SHEET 1 OF 1

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