

## PRODUCT DATA SHEET

C6756

**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: 1000 W CW  
 Coupling:  $40 \pm 1.0$  dB Max.  
 Insertion Loss: 0.2 dB Max.  
 Flatness:  $\pm 0.3$  dB Max.  
 VSWR (ML): 1.20:1 Max.  
 Directivity: 20 dB Min.

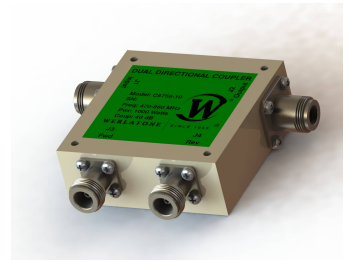
### Mechanical Specifications:

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)
C6756-10	N Female	N Female	N Female	N Female
C6756-12	N Female	N Female	SMA	SMA
C6756-13	N Female	N Female	BNC	BNC
C6756-20*	7/16 Female	7/16 Female	N Female	N Female
C6756-22*	7/16 Female	7/16 Female	SMA	SMA
C6756-23*	7/16 Female	7/16 Female	BNC	BNC
C6756-302	TNC Female	TNC Female	SMA	SMA
C6756-627*	7/16 Female	7/16 Male	N Female	N Female
C6756-712	N Male	N Female	SMA	SMA
C6756-714	N Male	N Female	N Female	N Female
C6756-727*	7/16 Male	7/16 Female	N Female	N Female
C6756-728*	7/16 Male	7/16 Female	SMA	SMA

\*Starred options are 3.0 x 3.0 x 1.59"

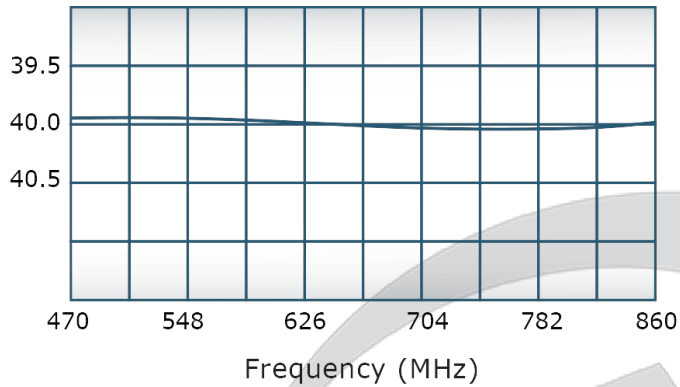


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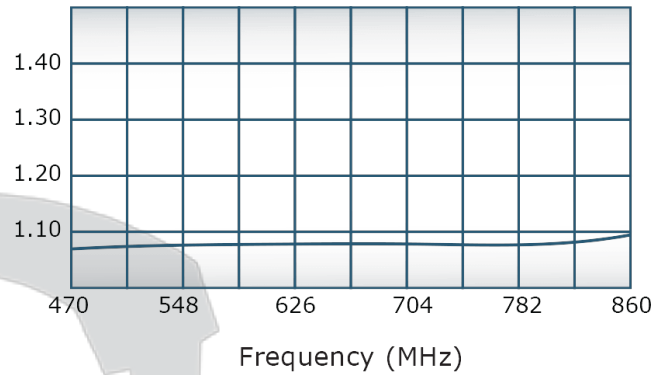
C6756

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

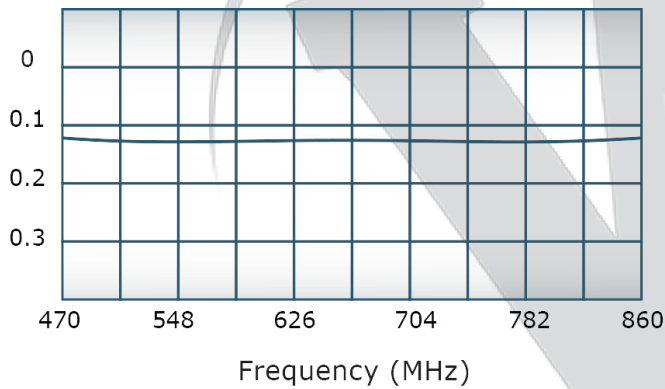
Coupling:



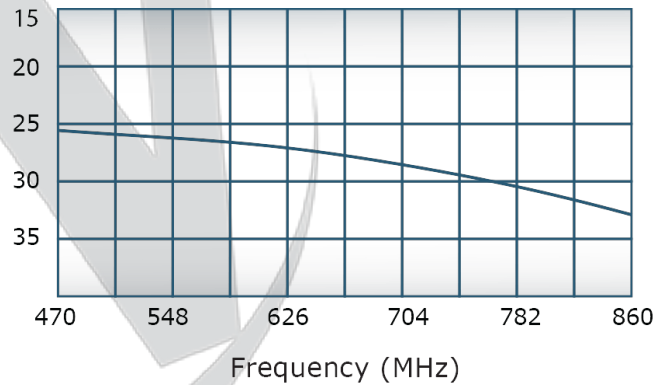
VSWR:



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	APPLICATION	<ul style="list-style-type: none"><li>• INTERPRET DRAWING AS PER MIL-STD-100</li><li>• DIMENSIONING PER ASME Y14.5-2009</li><li>• DIMENSIONAL INFO FOR REF ONLY</li><li>• DIMENSIONS ARE IN INCHES</li><li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING</li><li>• TOLERANCES:<ul style="list-style-type: none"><li>ANGLES ± .2°</li><li>3 PL ± .005 [13]</li><li>2 PL ± .003 [18]</li></ul></li><li>• REMOVE ALL MARKS AND SHARP EDGES R.01 MAX</li><li>• CONDUCTIVITY MACHINED SUR. 402 FPM</li><li>• MACHINE TOOL, REWORKING .002 MAX</li></ul>		RH	7/5/2001		<b>OUTLINE</b> SIZE CAGE CODE DWG NO <div>10379-505</div>	R#	SHEET 1 OF 1
		CHK	DATE	TITLE					
		BNGR	7/5/2001						
				MJ	DATE				
				QA	DATE				
				RLSE	DATE				
		THIRD ANGLE PROJECTION 		SCALE		1:1			

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