
**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 ± 1.0 dB Max.  
 Insertion Loss:      0.2 dB Max.  
 Flatness:             ± 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:**

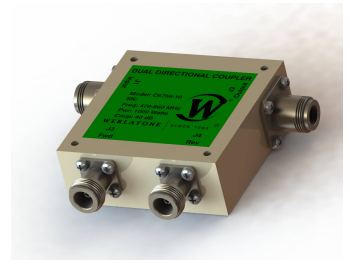
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6756-10	N Female	N Female	N Female	N Female
C6756-12	N Female	N Female	SMA	SMA
C6756-13	N Female	N Female	BNC	BNC
C6756-20*	7/16 Female	7/16 Female	N Female	N Female
C6756-22*	7/16 Female	7/16 Female	SMA	SMA
C6756-23*	7/16 Female	7/16 Female	BNC	BNC
C6756-302	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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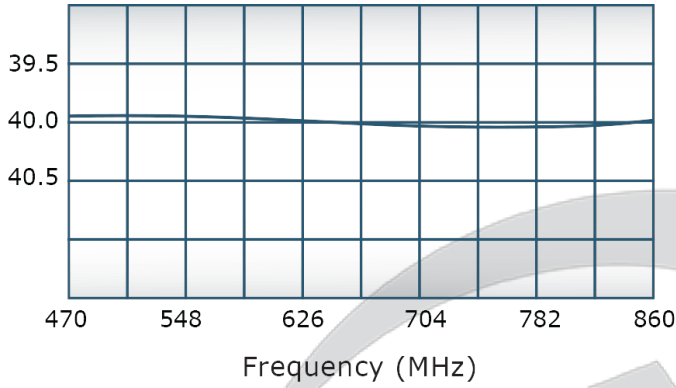
Werlatone, Inc.

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

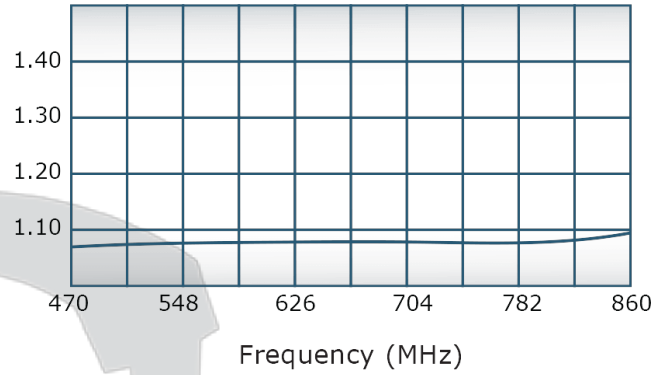


## Performance Data (Specifications subject to change without notice):

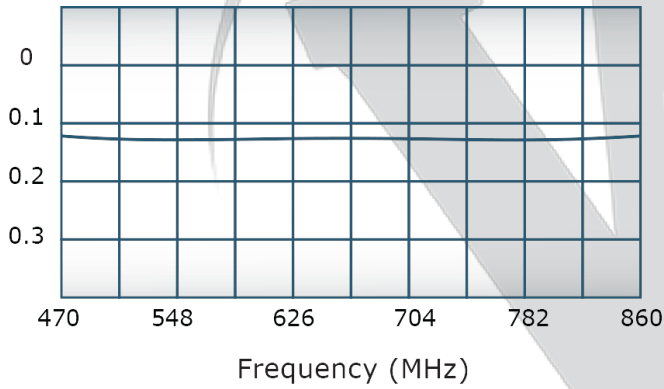
Coupling:



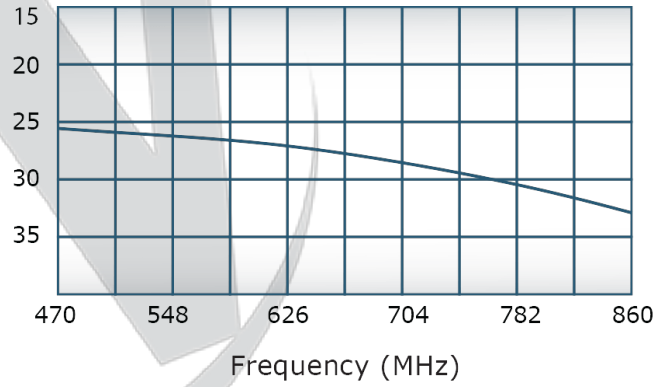
VSWR:



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**
- MATERIAL: ALUMINUM 6061-T6**
  - 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 12563
<ul style="list-style-type: none"> <li>• INTERPRET DRAWING (AWW MIL-STD-100)</li> <li>• DIMENSIONING PER ASME Y14.5M-2009</li> <li>• PARENTHESES INFO FOR REF ONLY</li> <li>• DIMENSIONS ARE IN INCHES</li> <li>• DIMENSIONAL UNITS APPLY BEFORE PROCESSES</li> <li>• TOLERANCES:               <ul style="list-style-type: none"> <li>ANGLES: ± 2°</li> <li>3 PL. ± .005 (1.3)</li> <li>2 PL. ± .015 (1.3)</li> </ul> </li> <li>• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</li> <li>• CONCENTRICITY MACHINED DIA: .002 FIM</li> <li>• MACHINE TOOL IMPACT: .003 MAX</li> </ul>	RH 7/5/2001 DATE ENGR DATE MJ 7/5/2001 DATE MFR DATE QA DATE RELE DATE	TITLE <b>OUTLINE</b> SIZE <b>B</b> SCALE <b>1:1</b>	
NEXT ASSY	USED ON	APPLICATION	DWG NO <b>10379-505</b> SHEET <b>1</b> OF <b>1</b>

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