

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 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.3 dB Max.
VSWR (ML): 1.15:1 Max.
Directivity: 20 dB Min.

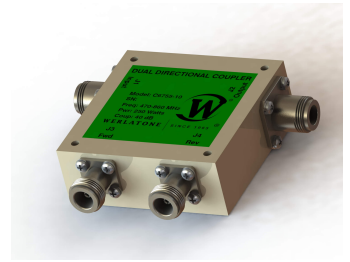
Mechanical Specifications:

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.

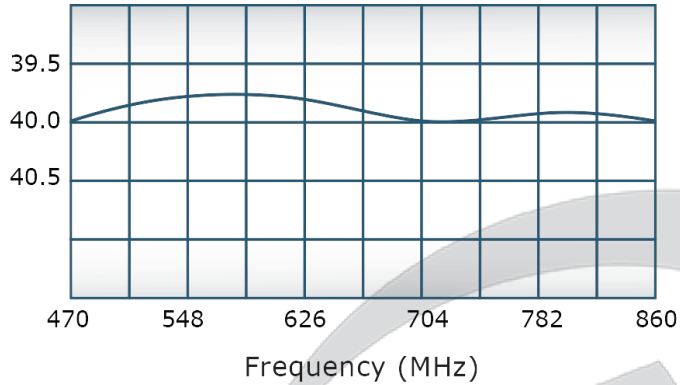


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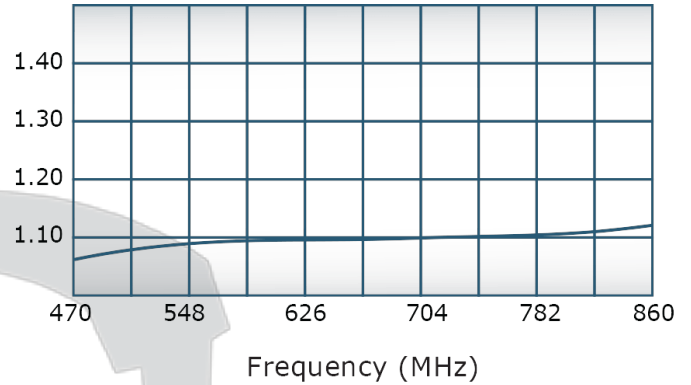
C6755

Performance Data (Specifications subject to change without notice):

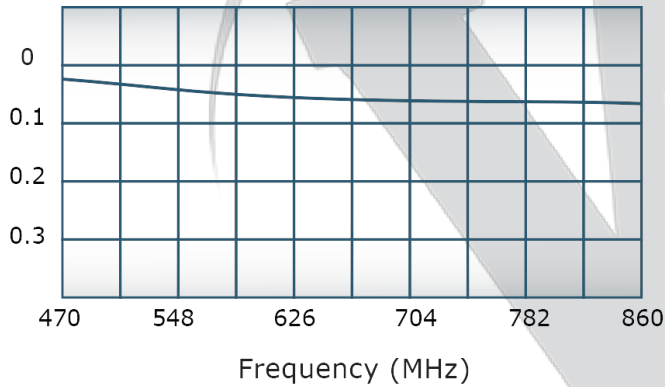
Coupling:



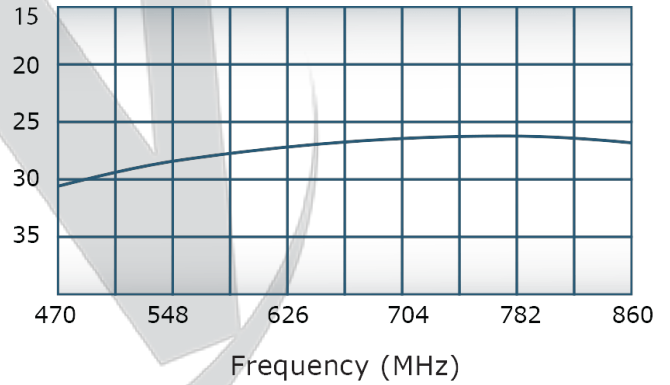
VSWR:



Insertion Loss:



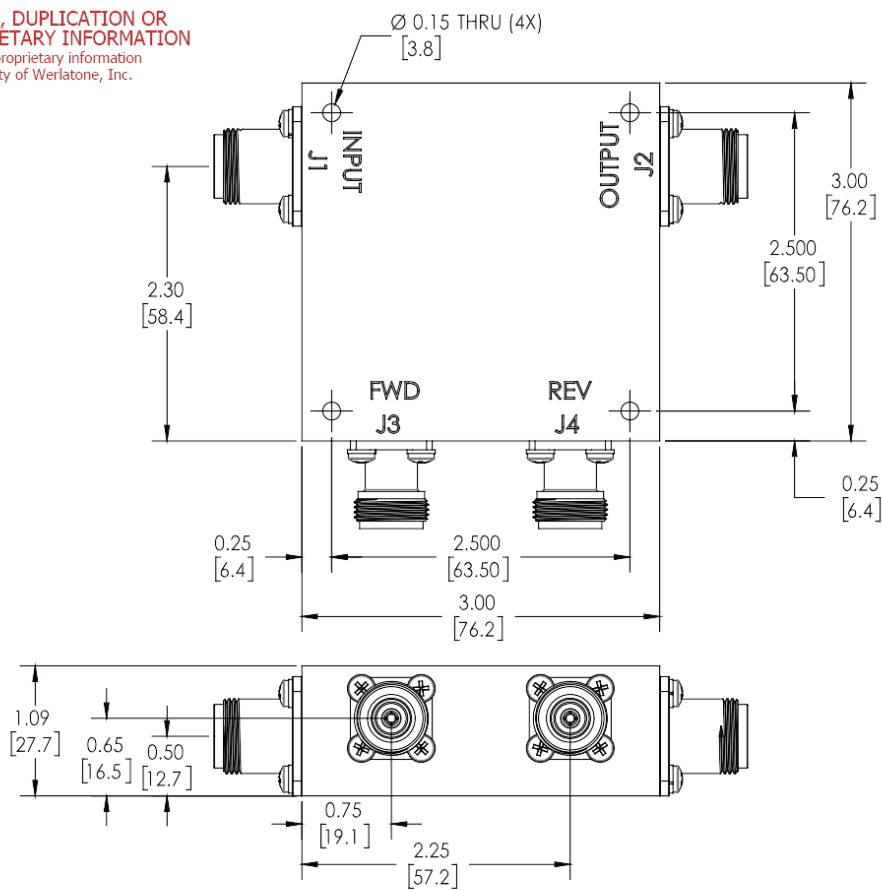
Directivity:



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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		 WERLATONE® SINCE 1965		17 Jon Barrett Rd Patterson, NY 12568					
						• INTERPRET DRAWING AS PER MIL-STD-100 • DIMENSIONING PER ASME Y14.5-2009 • ARCHITECTURAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: - ANGLES $\pm .2^\circ$ - Holes $\pm .005 [+.1]$ - F.P.S. $\pm .015 [+.3]$ • REMOVE ALL MARKS AND SHARP EDGES R.01 MAX • CONDUCTIVITY MACHINED SUR. A62 FIN • MACHINE TOOL, REWORKED - R02 MAX						RH DATE 7/5/2001						CHK DATE		TITLE	
						ENGR MJ DATE 7/5/2001						 OUTLINE		SIZE		CAGE CODE		DWG NO		REV	
						RFRGR QA DATE								B		10379-505		SHEET 1 OF 1			
NEXT ASSY USED ON												SCALE 1:1									
APPLICATION						THIRD ANGLE PROJECTION 															

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