



PRODUCT DATA SHEET

C6727

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: 200 - 2000 MHz
 Power: 300 W CW
 Coupling: 40 ± 1.0 dB Max.
 Insertion Loss: 0.25 dB Max.
 Flatness: ± 0.75 dB Max.
 VSWR (ML): 1.30:1 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)
C6727-10	N Female	N Female	N Female	N Female
C6727-12	N Female	N Female	SMA	SMA
C6727-13	N Female	N Female	BNC	BNC
C6727-612	N Female	N Male	SMA	SMA
C6727-712	N Male	N Female	SMA	SMA

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.

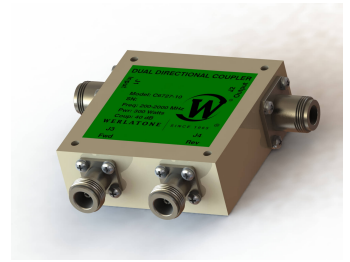
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WERLATONE

Model C6727

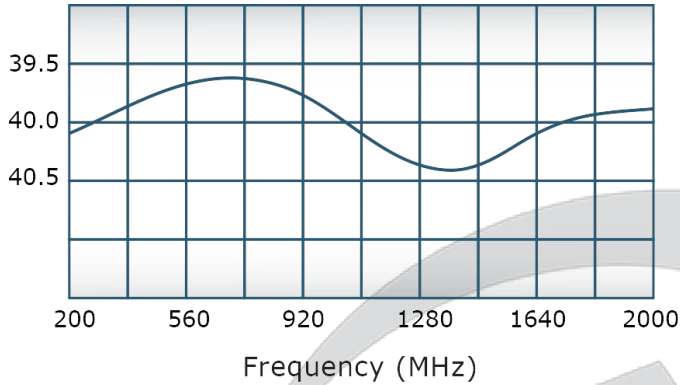


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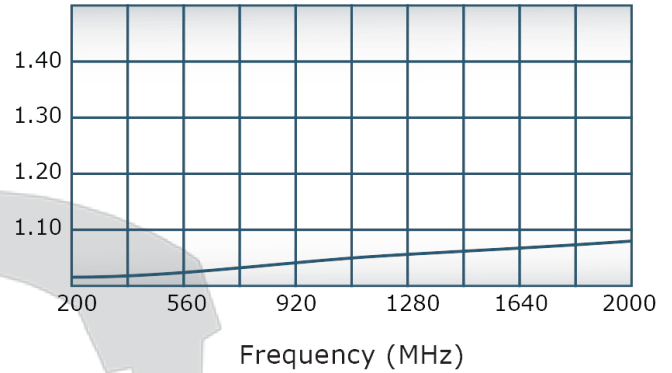
C6727

Performance Data (Specifications subject to change without notice):

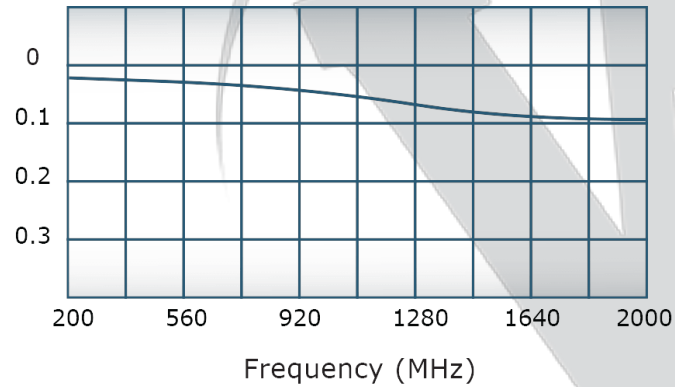
Coupling:



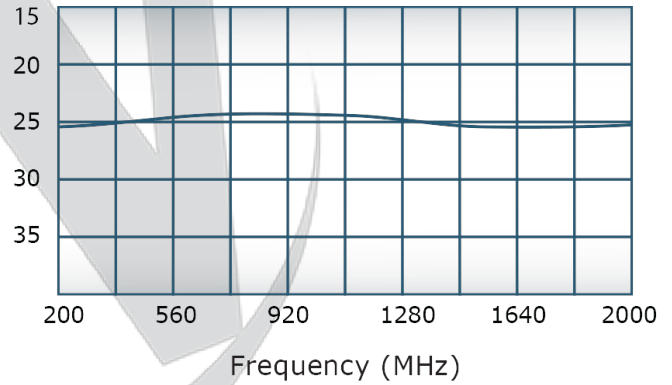
VSWR:



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		
		<ul style="list-style-type: none">• INTERPRET DRAWING AS PER: STD-100• DIMENSIONING PER ASME Y14.5-2009• ARCHITECTURAL INFO FOR KEY ONLY• DIMENSIONS ARE IN INCHES• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES• TOLERANCES:		RH	7/5/2001		 WERLATONE® SINCE 1965		
		ANGLES ± 2° 2 P. ± .002 [13] 3 P. ± .005 [38]		CHK	DATE				
		<ul style="list-style-type: none">• REMOVE ALL BURS AND SHARP EDGES R.21 MAX• CONCENTRICITY MACHINED DIA. ±.002 FIM• MACHINE TOOL REGISTRATION .002 MAX		ENGR	DATE				
				RFGR	7/5/2001				
				QA	DATE				
NEXT ASSY		USED ON				OUTLINE SIZE CAGE CODE DWG NO B 10379-505			
APPLICATION		THIRD ANGLE PROJECTION 		SCALE	DATE	1:1 SHEET 1 OF 1			

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