



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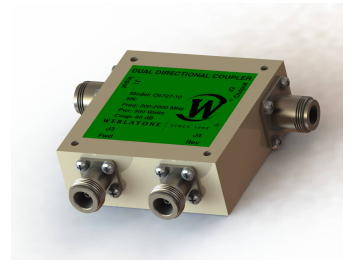
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C6727

Connectorized Directional Couplers

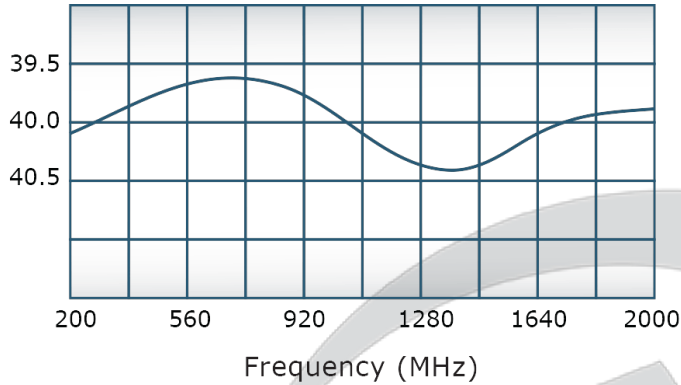


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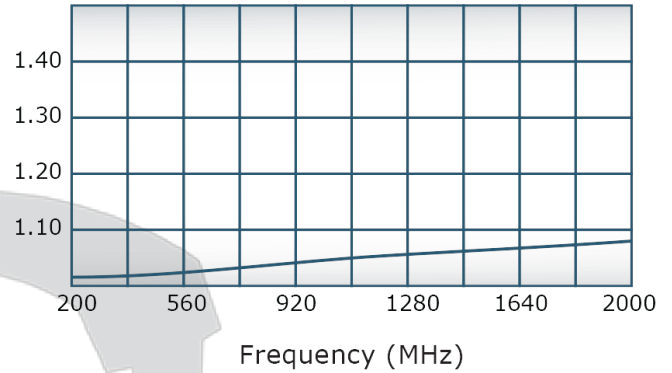
C6727

Performance Data (Specifications subject to change without notice):

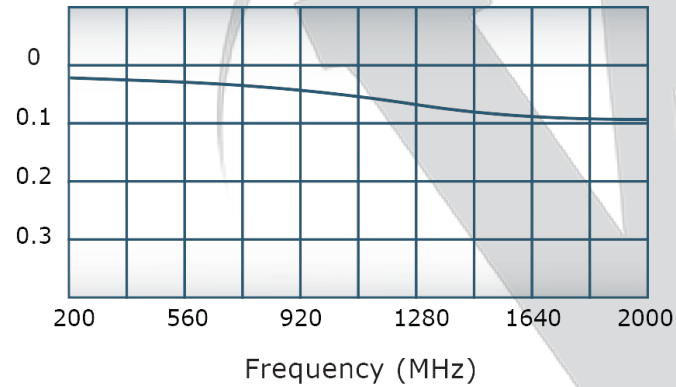
Coupling:



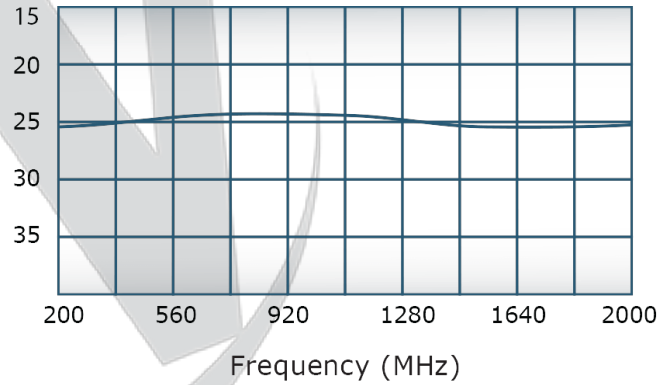
VSWR:



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	
		• INTERPRET DRAWING SHIP MIL-STD-105	RH	7/5/2001			Patterson, NY 12568	
		• DIMENSIONING PER ASME Y14.5-2009	CHK	DATE	TITLE			
		• DIMENSIONAL INFO FOR REF ONLY						
		• DIMENSIONS ARE IN INCHES	ENGR	7/5/2001		<h1>OUTLINE</h1>		
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	M3					
		• TOLERANCES:						
		ANGLES ± 7° ± RA ± .005 [1.3] ± P ± .015 [28]	MFR					
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MIN	QA	DATE	SIZE	CAGE CODE	DWG NO	
		• CONCENTRICITY MACHINING DIA. .002 FIM			B		10379-505	
		• MACHINE TOOL DEFORMATION .002 MAX	RLSE	DATE	SCALE	1:1		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION 						SHEET 1 OF 1
APPLICATION								

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