



WERLATONE

Model C5977

Connectorized Directional Couplers



PRODUCT DATA SHEET

C5977

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: 1000 - 2000 MHz
 Power: 600 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)
C5977-10	N Female	N Female	N Female	N Female
C5977-12	N Female	N Female	SMA	SMA
C5977-13	N Female	N Female	BNC	BNC
C5977-43	SC Female	SC Female	SMA	SMA
C5977-302	TNC	TNC	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



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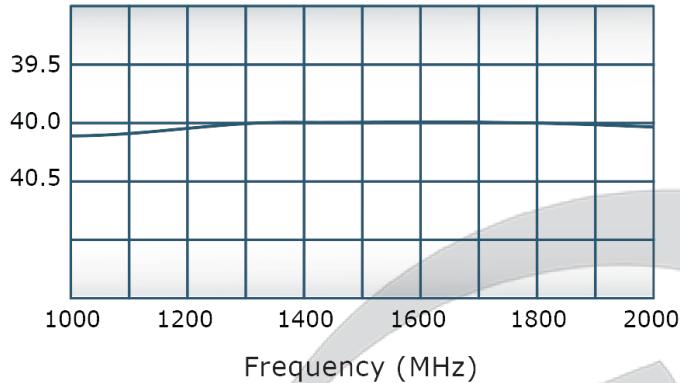


PRODUCT DATA SHEET

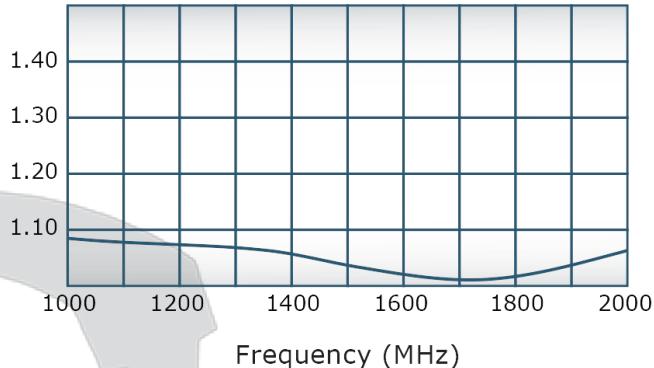
C5977

Performance Data (Specifications subject to change without notice):

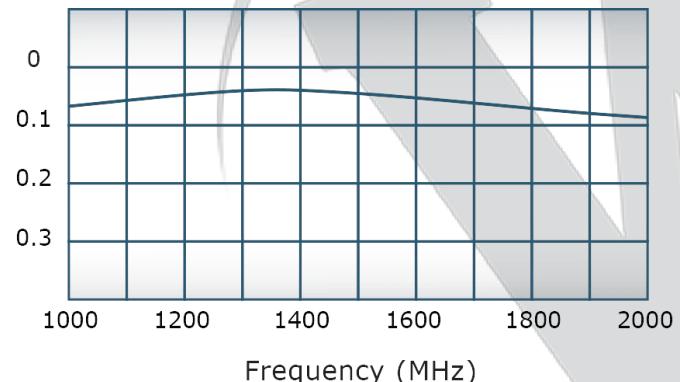
Coupling:



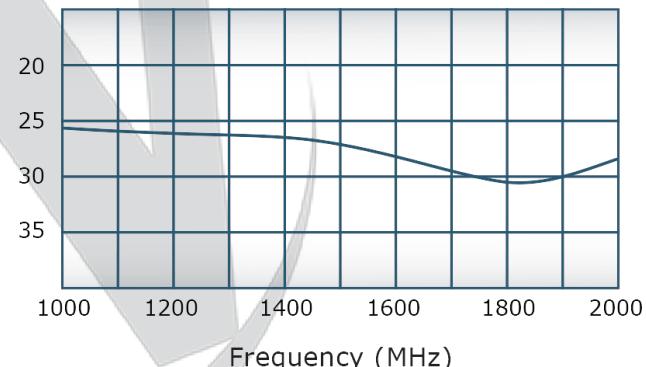
VSWR:



Insertion Loss:



Directivity:



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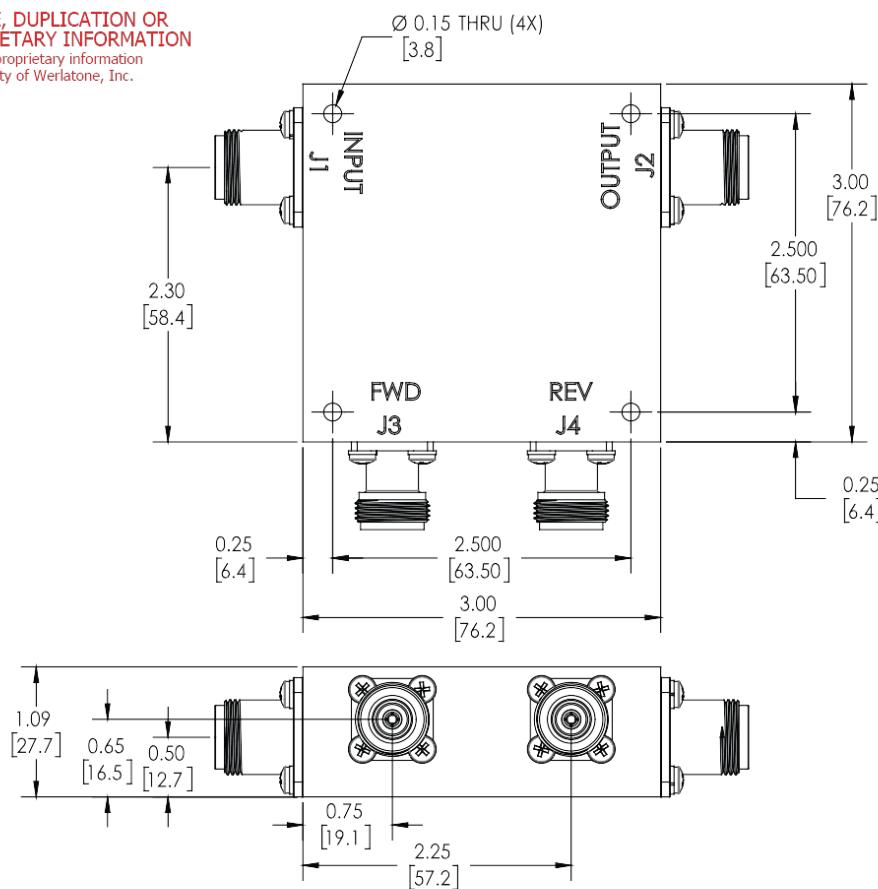
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REVISION HISTORY

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)

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		UNLESS OTHERWISE SPECIFIED	OWN	DATE		
		• INTERPRET DRAWING DAW MIL-STD-100	RH	7/5/2001		
		• PREDOMINANTLY IN INCHES	CHR	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
		• PARALLEL HOLE PATTERN FOR REF ONLY				
		• DIMENSIONS ARE IN INCHES				
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES				
		• TOLERANCES				
		• ANGLES ± 2°				
		• 3 AL + 1/16 [1.2]				
		• 2 AL + 0.031 [0.8]				
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
		• CONCENTRICITY MACHINED 0.04 .002 FIRM				
		• MACHINE TOOL MISMATCH .003 MAX				
NEXT ASSY	USED ON		ENGR	DATE		
APPLICATION	THIRD ANGLE PROJECTION		MFGR	DATE		
			QA	DATE		
			PLSE	DATE	OUTLINE	REV
					SIZE	
					CAGE CODE	
					DWG NO	
					B	10379-505
					SCALE	1:1
						SHEET 1 OF 1

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