

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

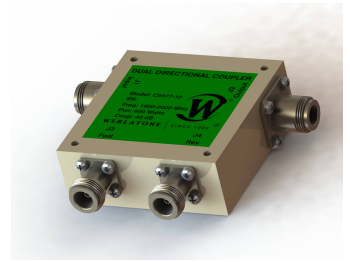
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



WERLATONE

Model C5977

Connectorized Directional Couplers

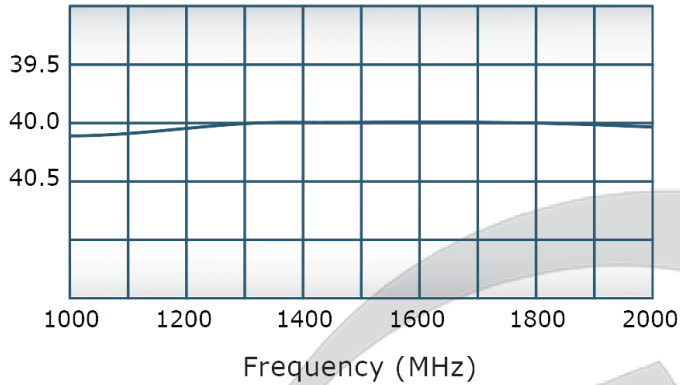


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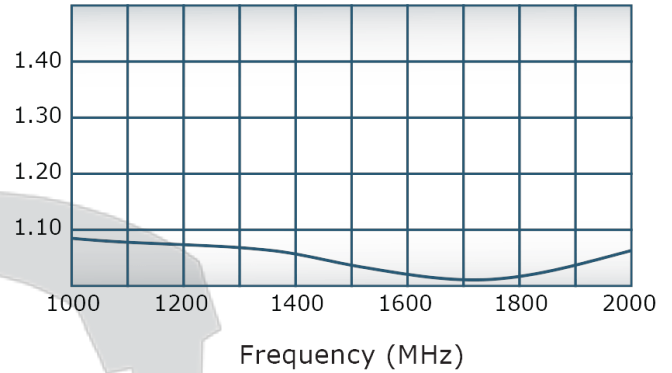
C5977

Performance Data (Specifications subject to change without notice):

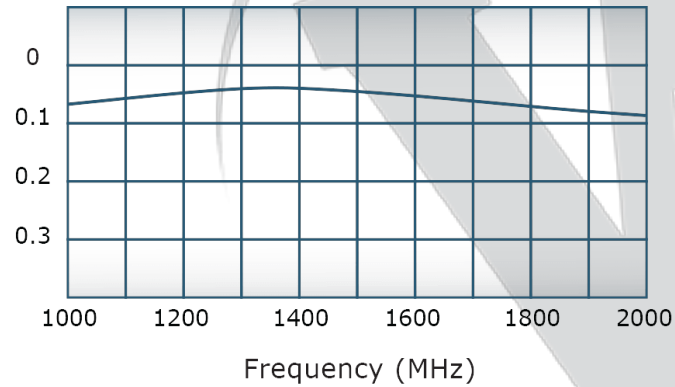
Coupling:



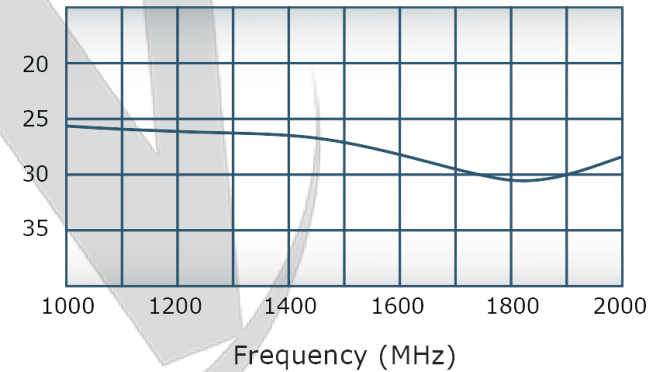
VSWR:



Insertion Loss:



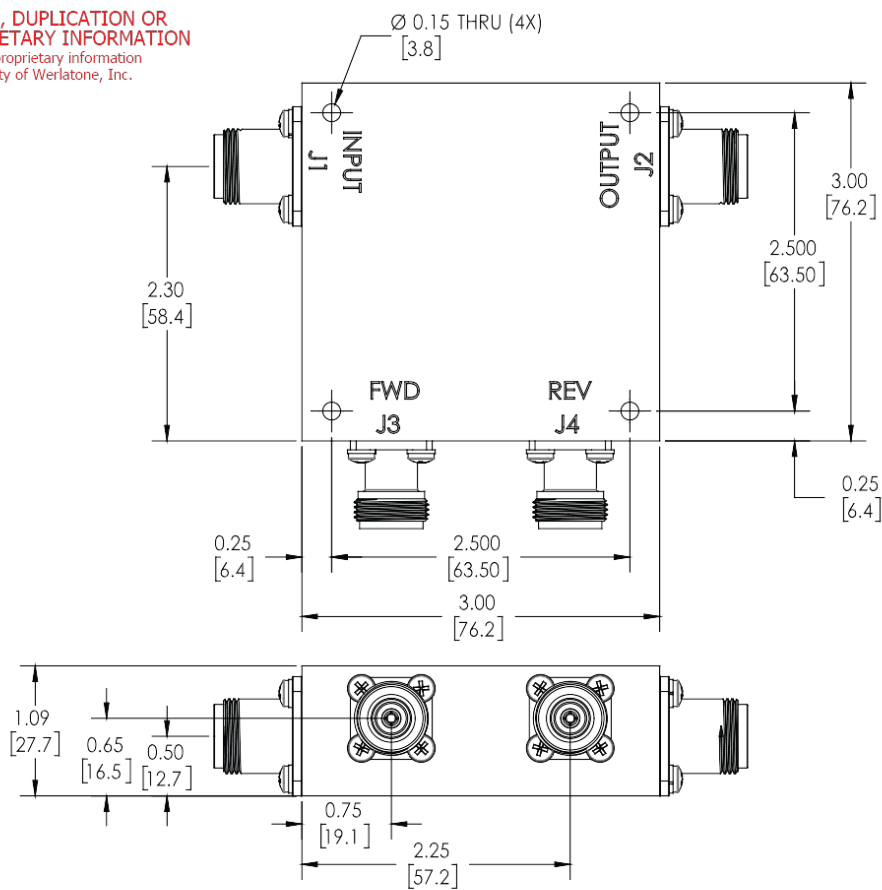
Directivity:



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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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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: STD-100 • DIMENSIONING PER ASME Y14.5-2009 • ARCHITECTURAL INFO FOR KEY ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 2 PL. ± .002 [13] 3 PL. ± .015 [38] • REMOVE ALL BURS AND SHARP EDGES R.25 MAX • CONCENTRICITY MACHINED DIA. ±.02 FIM • MACHINE TOOL DEFORMATION .002 FIM		RH	7/5/2001		 WERLATONE SINCE 1965		
				CHK	DATE				
				ENGR	DATE				
				MD	7/5/2001				
				APPR	DATE	OUTLINE			
				QA		SIZE	CAGE CODE	DWG NO	
						10379-505			
NEXT ASSY		USED ON		RLSE	DATE	SCALE 1:1		SHEET 1 OF 1	
APPLICATION		THIRD ANGLE PROJECTION 							

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