



WERLATONE

Model C5597

Connectorized Directional Couplers



PRODUCT DATA SHEET

C5597

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: 0.1 - 1000 MHz
 Power: 300 W CW
 Coupling: 40 ± 1.0 dB Max.
 Insertion Loss: 0.5 dB Max.
 Flatness: ± 0.5 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: 5.2 x 2.67 x 1.69"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5597-10	N Female	N Female	N Female	N Female
C5597-12	N Female	N Female	SMA	SMA
C5597-13	N Female	N Female	BNC	BNC
C5597-714	N Male	N Female	N Female	N Female

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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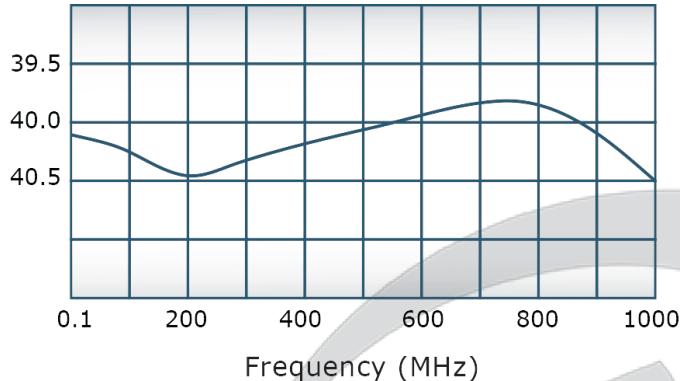


PRODUCT DATA SHEET

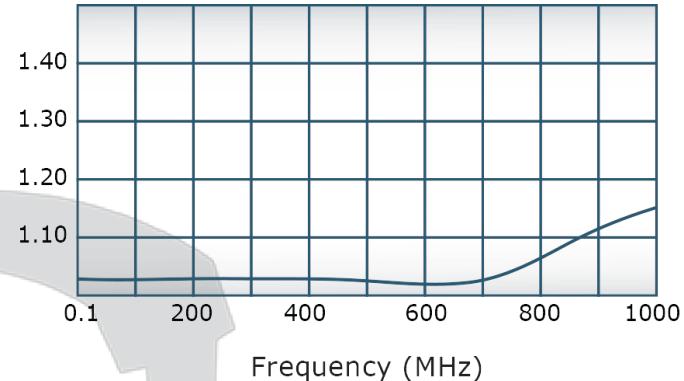
C5597

Performance Data (Specifications subject to change without notice):

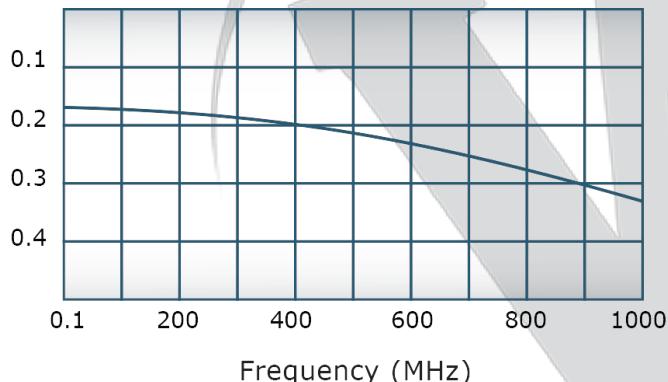
Coupling:



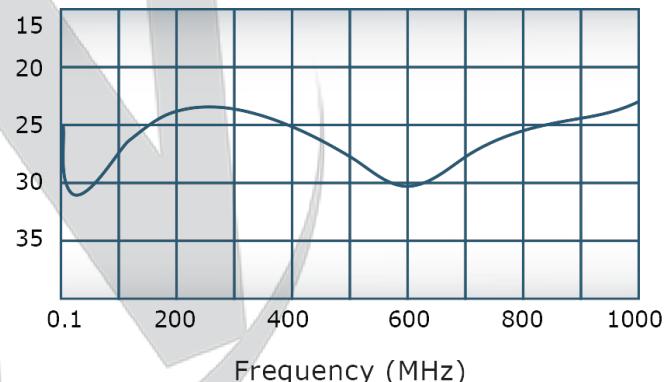
VSWR:



Insertion Loss:



Directivity:



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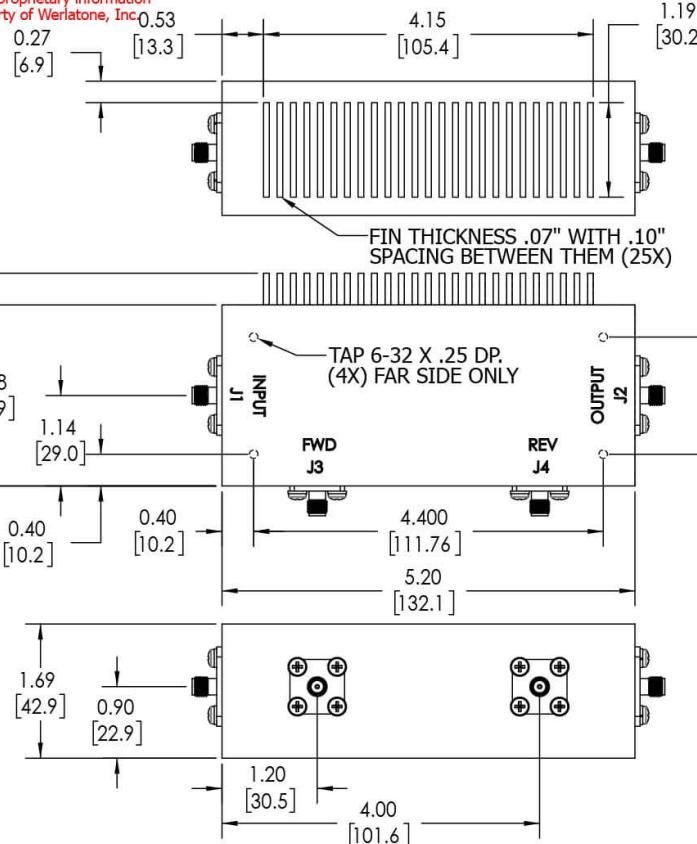
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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
J1-J4: SMA FEMALE

		UNLESS OTHERWISE SPECIFIED	OWN	DATE		
		INTERPRET DRAWING AS MIL-STD-100 UNLESS OTHERWISE SPECIFIED AS MIL-AS-114-SM-2009	SD	DATE		
		PARENTHETICAL TEXT FOR REFERENCE ONLY	CHK	DATE		
		DIMENSIONS ARE IN INCHES	CS	DATE		
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	ENGR	DATE		
		TOLERANCES	BW	DATE		
		ANGLES $\pm 2^\circ$	MFGR	DATE		
		3 RL $\pm .005$ [12.7]	QA	DATE		
		2 RL $\pm .012$ [30.5]	RELEASE	DATE		
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			SCALE	
		CONCENTRICITY MACHINED DIA. .002 FIM			1:1.5	
		MACHINE TOOL MISMATCH .003 MAX				
NEXT ASSY	USED ON					
APPLICATION	THIRD ANGLE PROJECTION					



WERLATONE SINCE 1965

17 Jon Barrett Rd
Patterson, NY 12563

OUTLINE

SIZE CAGE CODE DWG NO.

B 10407-501

REV A

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