
PRODUCT DATA SHEET
C5864

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: 500 - 1000 MHz
 Power: 3000 W CW
 Coupling: 60 ± 1.0 dB Max.
 Insertion Loss: 0.2 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.25:1 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: 6" Line Section

Connector Configurations:

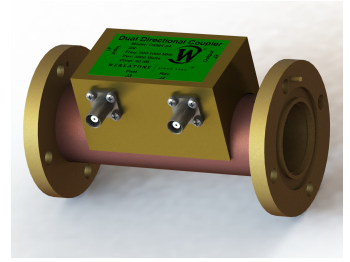
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5864-81	1 5/8" EIA	1 5/8" EIA	N Female	N Female
C5864-83	1 5/8" EIA	1 5/8" EIA	SMA	SMA
C5864-84	1 5/8" EIA	1 5/8" EIA	BNC	BNC

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.

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

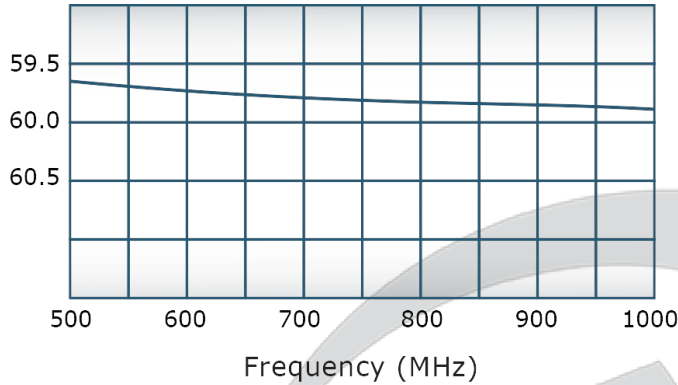


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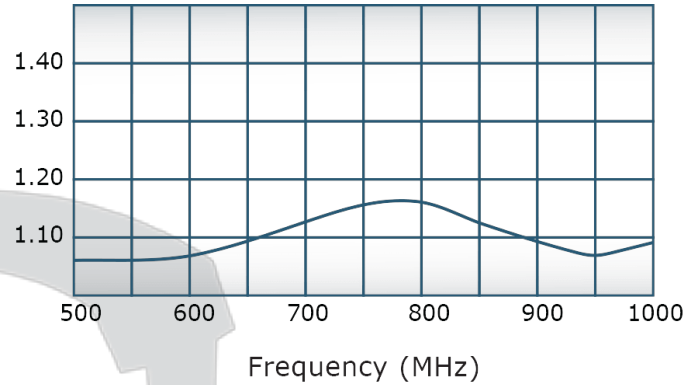
C5864

Performance Data (Specifications subject to change without notice):

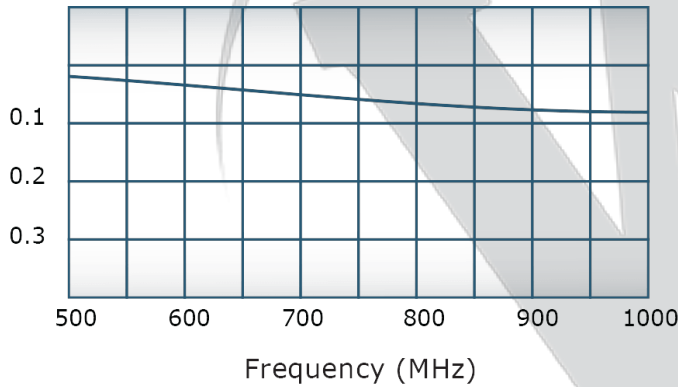
Coupling:



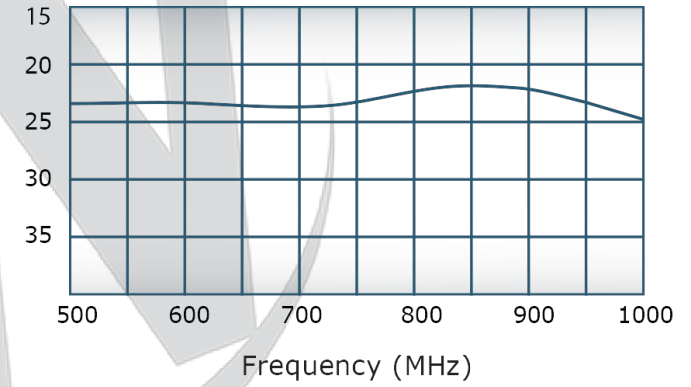
VSWR:



Insertion Loss:



Directivity:



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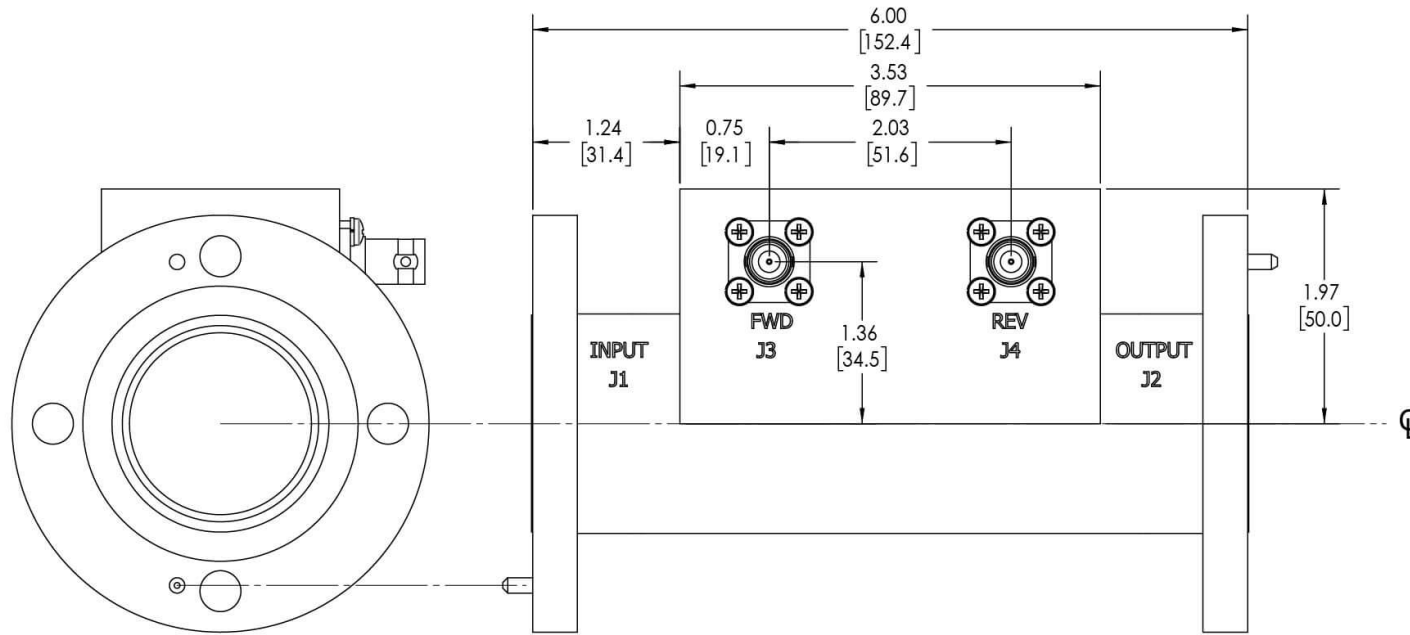
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/29/18	RB

NOTES:
 1. **CONNECTORS:**
 J1, J2: 1 5/8 EIA STANDARD
 J3, J4: BNC FEMALE



UNLESS OTHERWISE SPECIFIED		DWN	DATE	SD	DATE	W	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		CHK	DATE	CS	DATE	TITLE		
DIMENSIONS FOR ASME Y14.5M-2009		ENGR	DATE	DK	DATE	OUTLINE		
PARENTHESES INFO FOR REF ONLY		QA	DATE	RLSE	DATE	SIZE	CAGE CODE	DWG NO
DIMENSIONS ARE IN INCHES		NEXT ASSY		USED ON		B	10093-500	REV
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		APPLICATION		THIRD ANGLE PROJECTION		SCALE	1:1	A
TOLERANCES:						SHEET 1 OF 1		
ANGLES ± 2°								
3 PL ± .005 [13]								
2 PL ± .015 [38]								
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX								
CONCENTRICITY MACHINED DIA: .002 FIM								
MACHINE TOOL MISMATCH .003 MAX								

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