

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

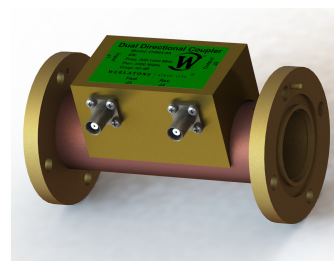
Connector Configurations:

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

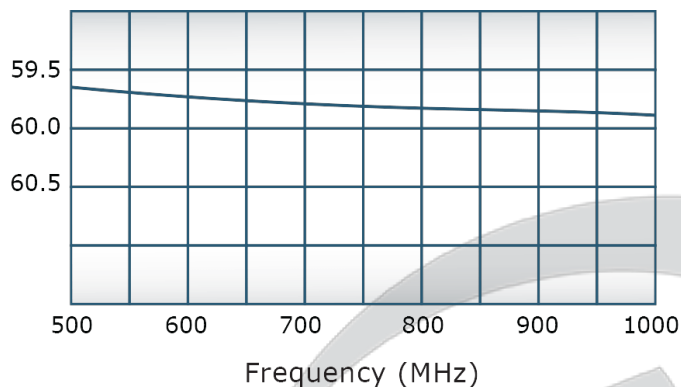


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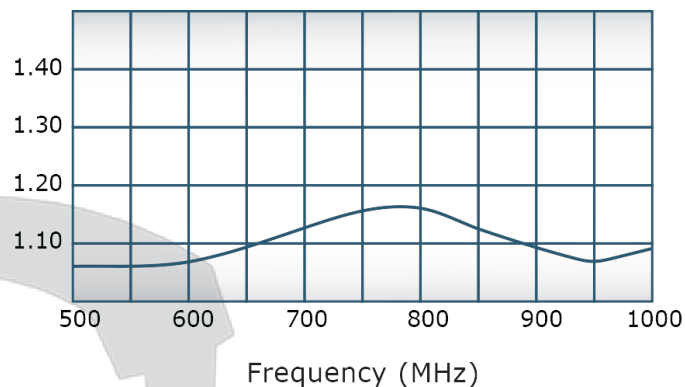
C5864

Performance Data (Specifications subject to change without notice):

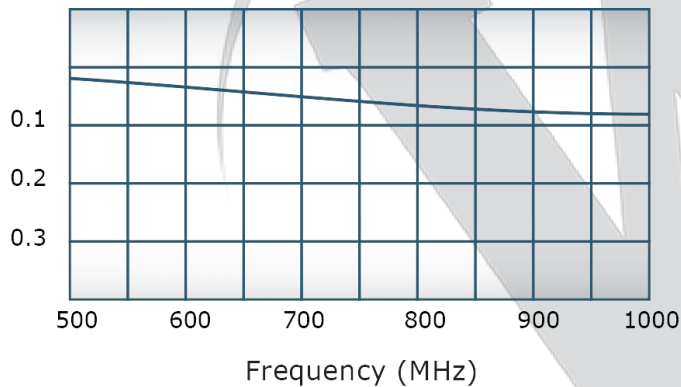
Coupling:



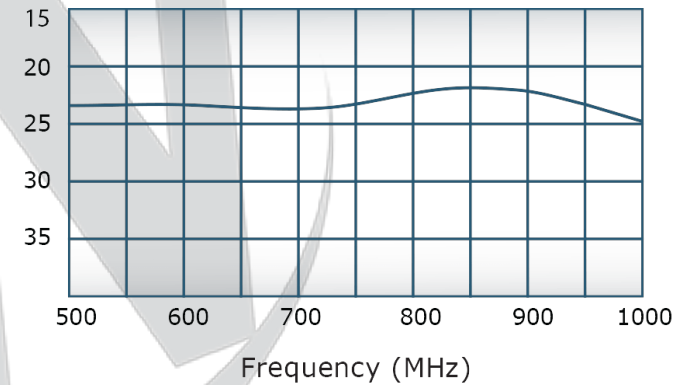
VSWR:



Insertion Loss:



Directivity:



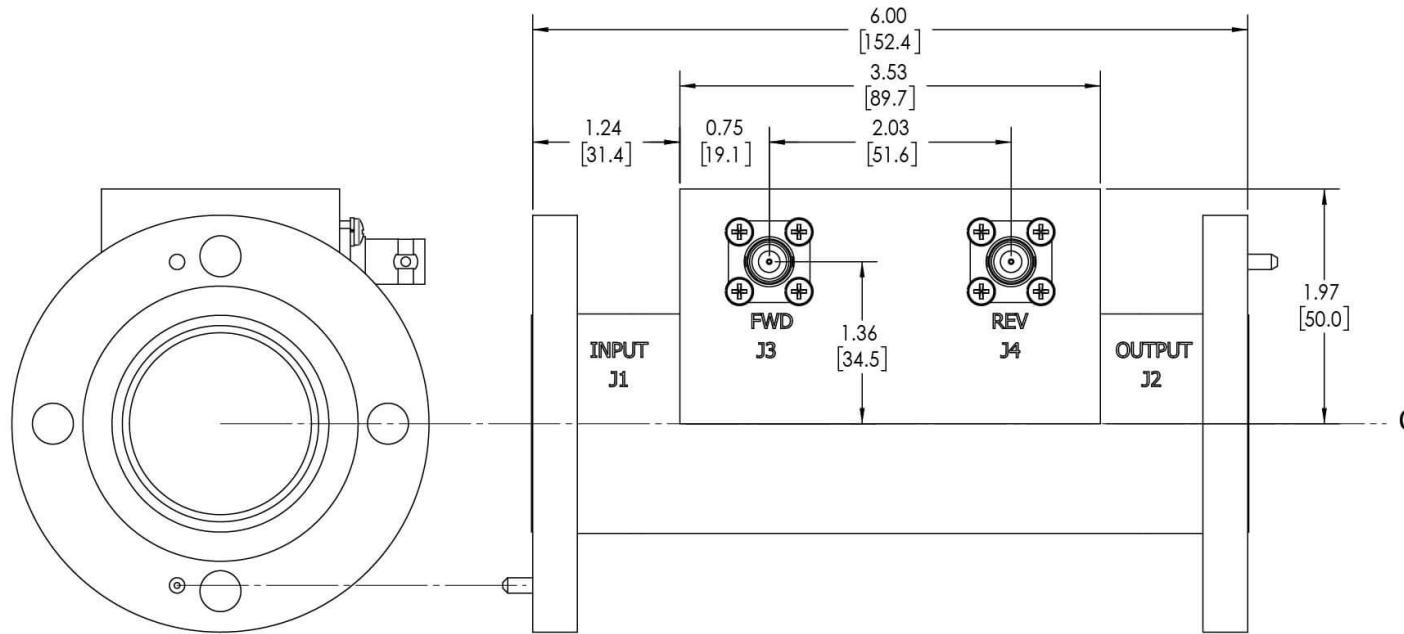
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/29/18	RB

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



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563			
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/2019					
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE					
		PARENTHESES ARE FOR REF ONLY		CS	2/11/2019		TITLE			
		DIMENSIONS ARE IN INCHES		ENGR	DATE		OUTLINE			
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		DK	8/4/1992					
		TOLERANCES:		INFR	DATE	SIZE CAGE CODE DWG NO		REV		
		ANGLES ± 2°		QA	DATE					
		3 PL ± .005 [13]		RLSE	DATE	SCALE		1:1	SHEET 1 OF 1	
		2 PL ± .015 [38]								
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX								
		CONCENTRICITY MACHINED DIA: .002 FIM								
		MACHINE TOOL MISMATCH .003 MAX								
NEXT ASSY USED ON										
APPLICATION		THIRD ANGLE PROJECTION 								

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