

PRODUCT DATA SHEET

C5948

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 - 10 MHz
 Power: 1500 W CW
 Coupling: 30 ± 1.0 dB Max.
 Insertion Loss: 0.1 dB Max.
 Flatness: ± 0.25 dB Max.
 VSWR (ML): 1.25:1 Max. (0.1-0.5 MHz), 1.05:1 Max. (0.5-10 MHz)
 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: 6.46 x 2.52 x 1.20"

Connector Configurations:

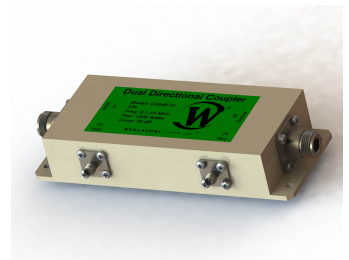
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5948-10	N Female	N Female	N Female	N Female
C5948-12	N Female	N Female	SMA	SMA
C5948-13	N Female	N Female	BNC	BNC
C5948-102	SMA	SMA	SMA	SMA

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 C5948

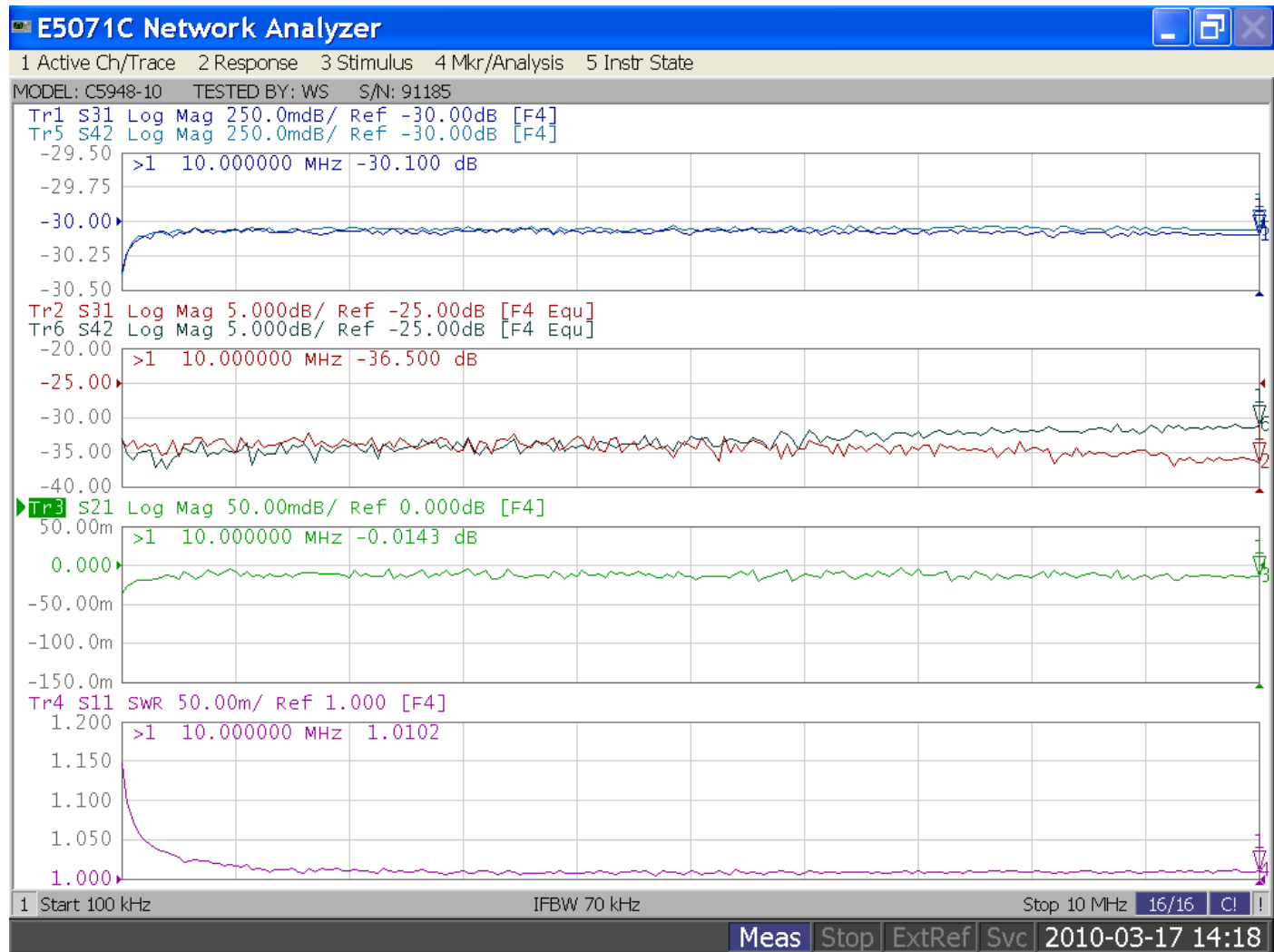


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Performance Data (Specifications subject to change without notice):

Plot 1: Coupling, Plot 2: Directivity, Plot 3: Insertion Loss, Plot 4: VSWR



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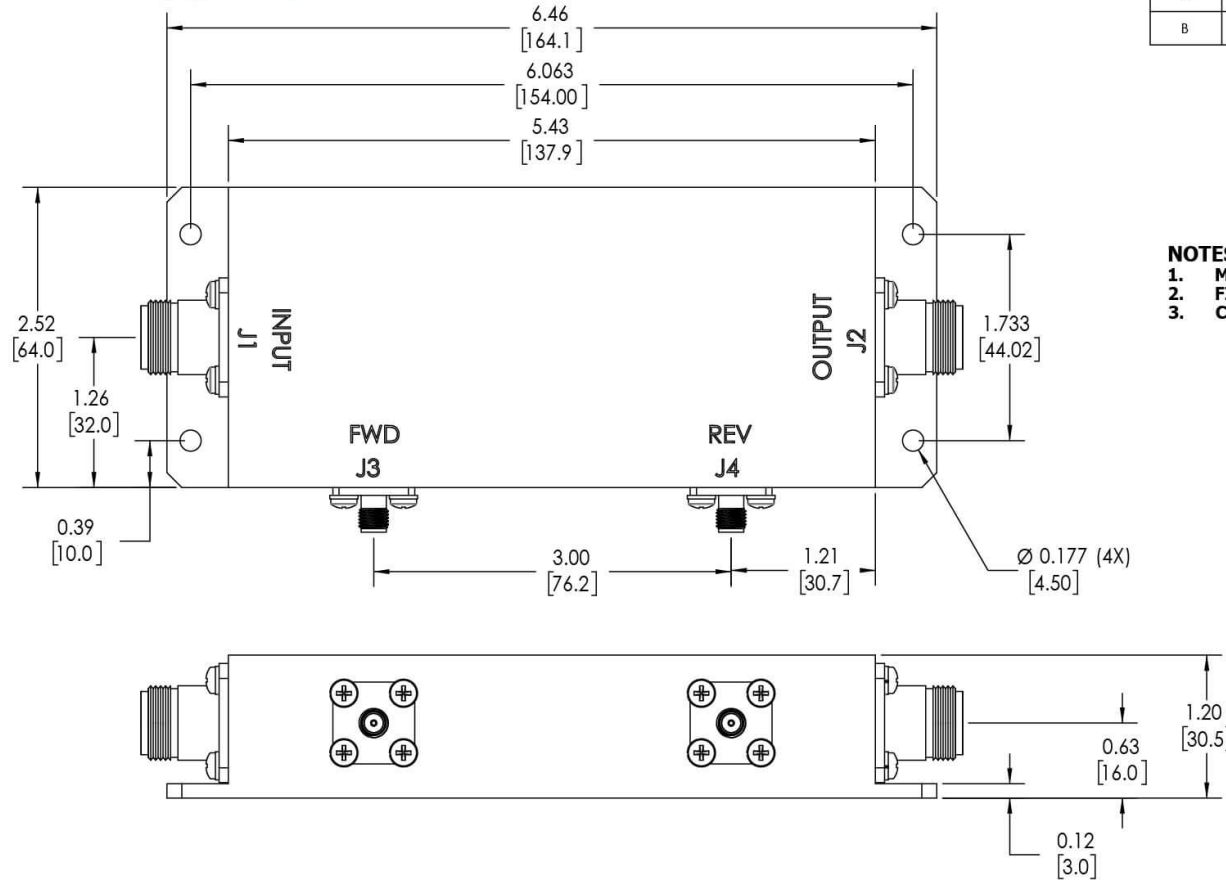
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 1968	3/7/01	BW
B	ECN 9696	3/25/19	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**
 J1,J2: N FEMALE
 J3,J4: SMA FEMALE



		UNLESS OTHERWISE SPECIFIED		DWN	DATE	<div> WERLATONE SINCE 1965</div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	3/25/2019		
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	<div>OUTLINE</div> <div>SIZE CAGE CODE DWG NO</div> <div>B 10194-500</div>	
		PARENTHESES FOR REF ONLY		CS	3/25/2019		
		DIMENSIONS ARE IN INCHES		ENGR	DATE	<div>SCALE</div> <div>1:1</div>	
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE		
		TOLERANCES:		QA	DATE	<div>SHEET 1 OF 1</div>	
		ANGLES ± 2°		RLSE	DATE		
		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					
NEXT ASSY USED ON		APPLICATION		THIRD ANGLE PROJECTION			

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