

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

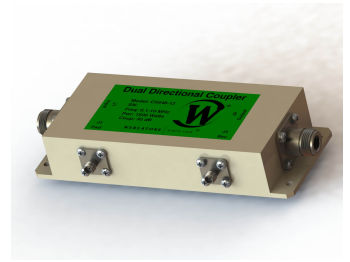
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C5948

Connectorized Directional Couplers

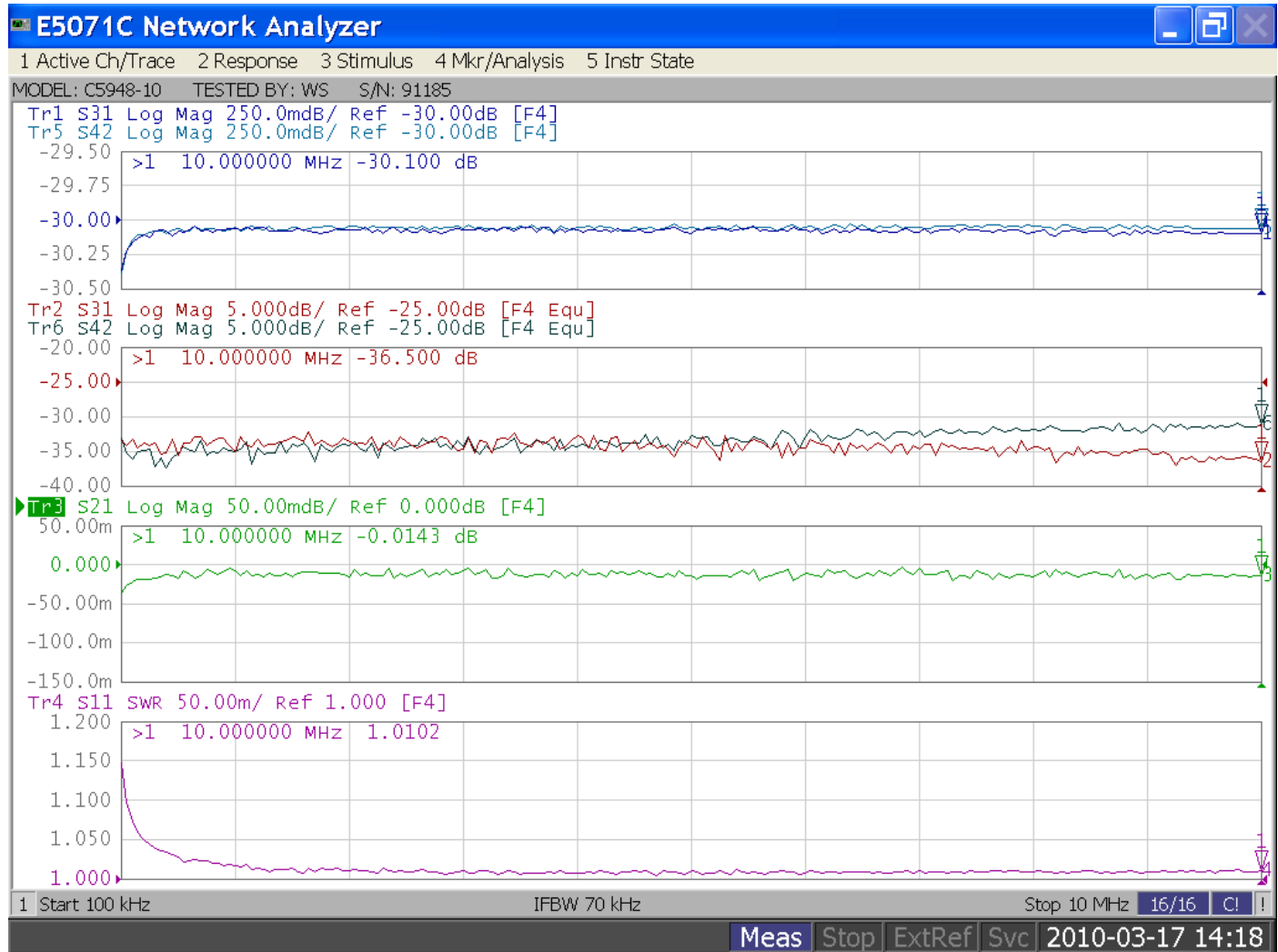


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Performance Data (Specifications subject to change without notice):

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



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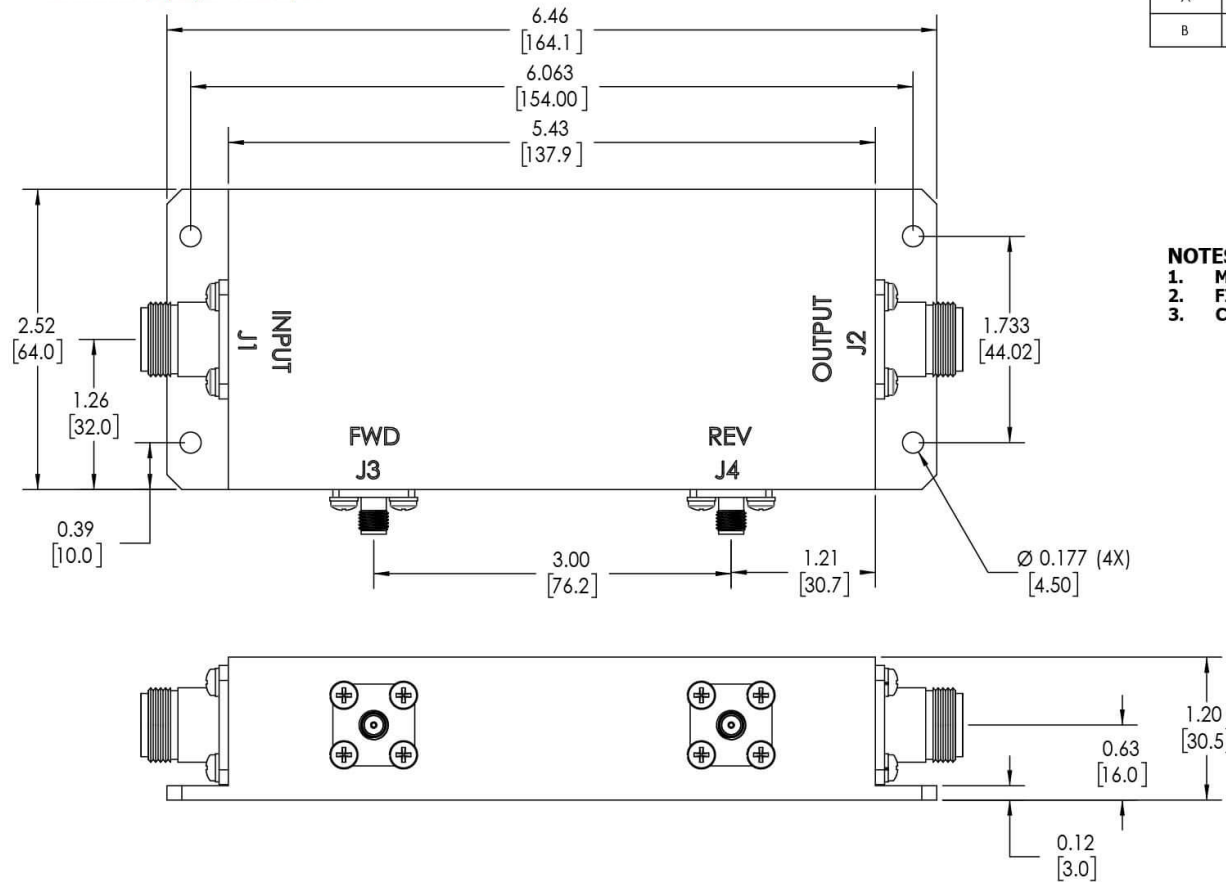
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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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		DATE	3/25/2019
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	DATE	3/25/2019	
DIMENSIONS FOR ASSEMBLY	DATE	3/25/2019	
PARENTHESES FOR REF ONLY	DATE	3/25/2019	
DIMENSIONS ARE IN INCHES	DATE	3/25/2019	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	DATE	3/25/2019	
TOLERANCES:	DATE	3/25/2019	
ANGLES ± 2°	DATE	3/25/2019	
3 PL ± .005 [13]	DATE	3/25/2019	
2 PL ± .015 [38]	DATE	3/25/2019	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE	3/25/2019	
CONCENTRICITY MACHINED DIA. .002 FIM	DATE	3/25/2019	
MACHINE TOOL MISMATCH .003 MAX	DATE	3/25/2019	
THIRD ANGLE PROJECTION	DATE	3/25/2019	
NEXT ASSY	USED ON	DATE	3/25/2019
APPLICATION	DATE	3/25/2019	

 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
TITLE			
OUTLINE			
SIZE	CAGE CODE	DWG NO	REV
B		10194-500	B
SCALE	1:1		SHEET 1 OF 1

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