



PRODUCT DATA SHEET

C1848

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: 20 - 100 MHz
 Power: 1500 W CW
 Coupling: 40 ± 1.0 dB Max.
 Insertion Loss: 0.1 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.15:1 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: 5.0 x 3.0 x 1.87"

Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C1848-10	N Female	N Female	N Female	N Female
C1848-12	N Female	N Female	SMA	SMA
C1848-13	N Female	N Female	BNC	BNC
C1848-20	7/16 Female	7/16 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.



WERLATONE

Model C1848

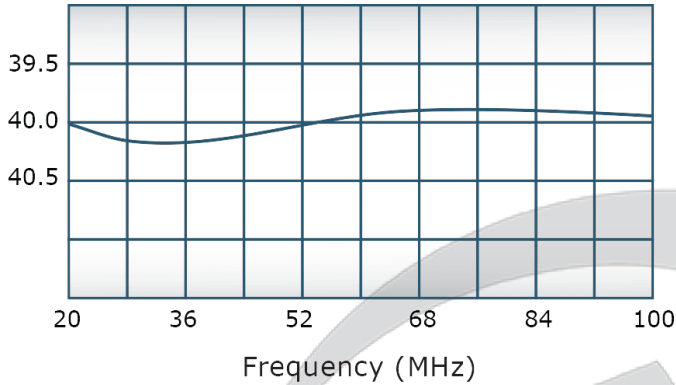


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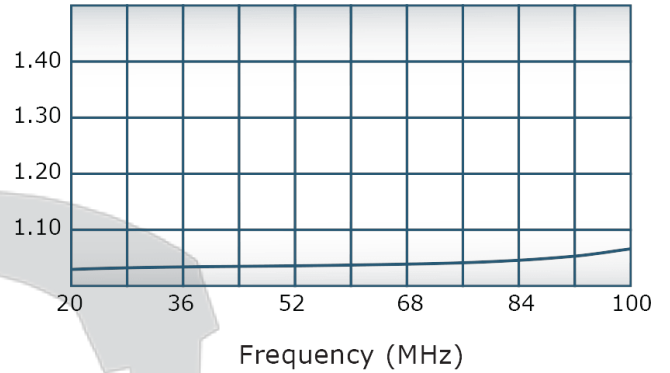
C1848

Performance Data (Specifications subject to change without notice):

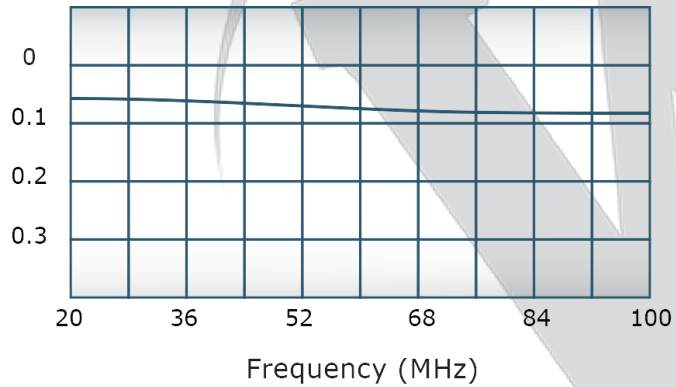
Coupling:



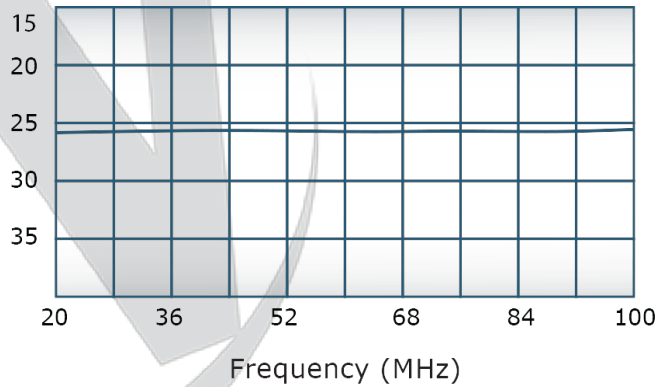
VSWR:



Insertion Loss:



Directivity:

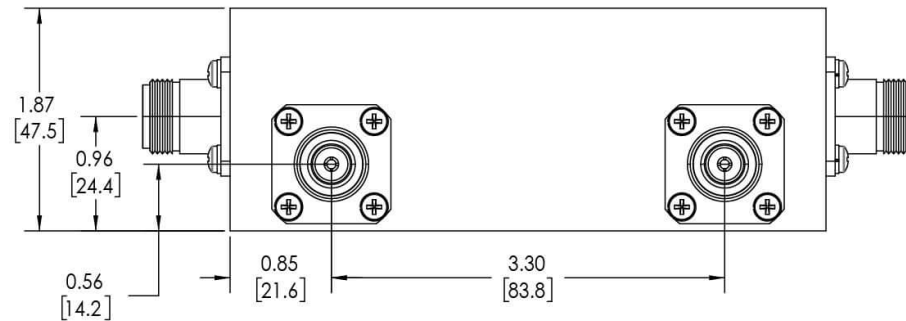
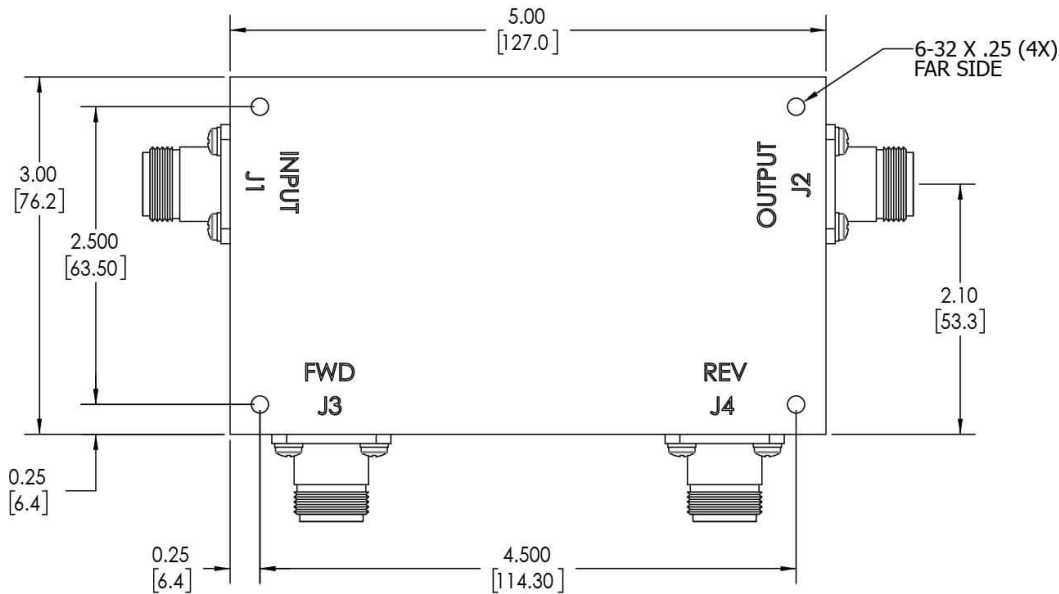


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/15/2019	RB



NOTES: UNLESS OTHERWISE SPECIFIED

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

UNLESS OTHERWISE SPECIFIED		DATE	5/14/2019
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	SD	DATE	5/14/2019
DIMENSIONS FOR ASSEMBLY TO BE USED	CHK	DATE	5/14/2019
PARENTHERTICAL INFO FOR REF ONLY	CS	DATE	5/14/2019
DIMENSIONS ARE IN INCHES	ENGR	DATE	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE	
TOLERANCES:	QA	DATE	
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			
THIRD ANGLE PROJECTION			
NEXT ASSY	USED ON		
APPLICATION			

 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563
TITLE		
OUTLINE		
SIZE	CAGE CODE	DWG NO
B		10046-500
SCALE	REV	
1:1	A	
SHEET 1 OF 1		

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