



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.

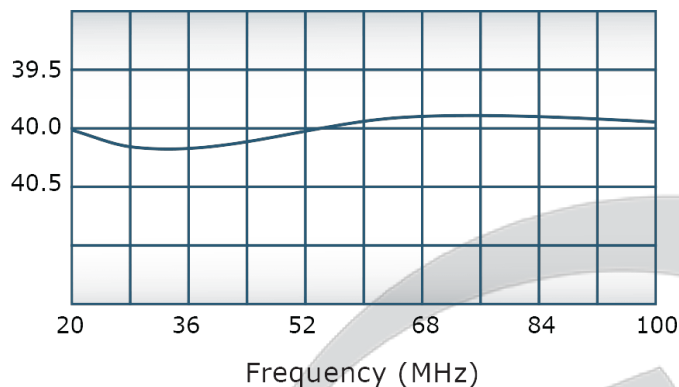


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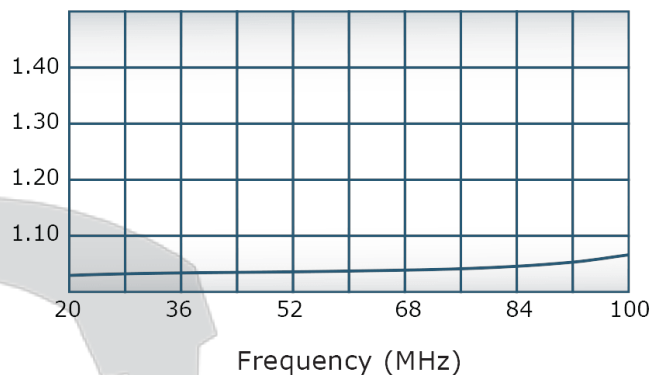
C1848

Performance Data (Specifications subject to change without notice):

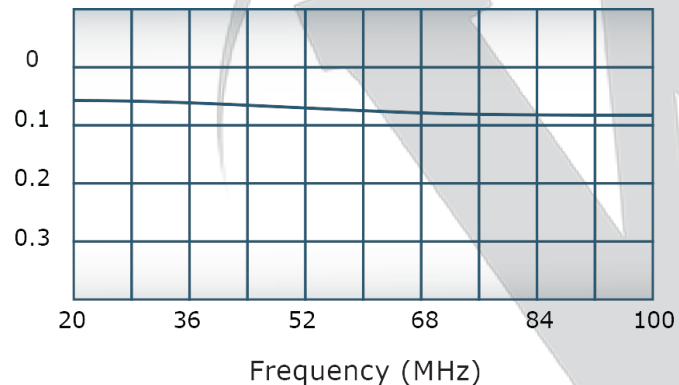
Coupling:



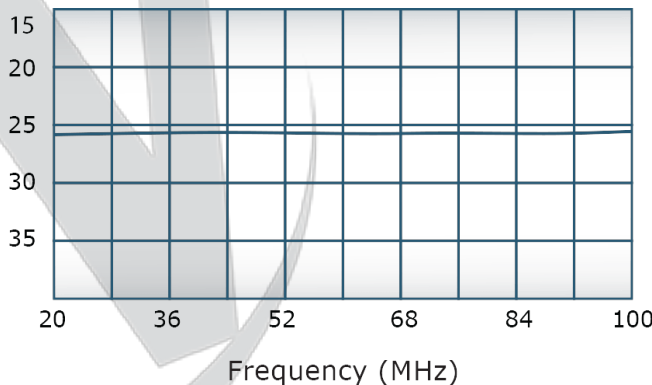
VSWR:



Insertion Loss:



Directivity:

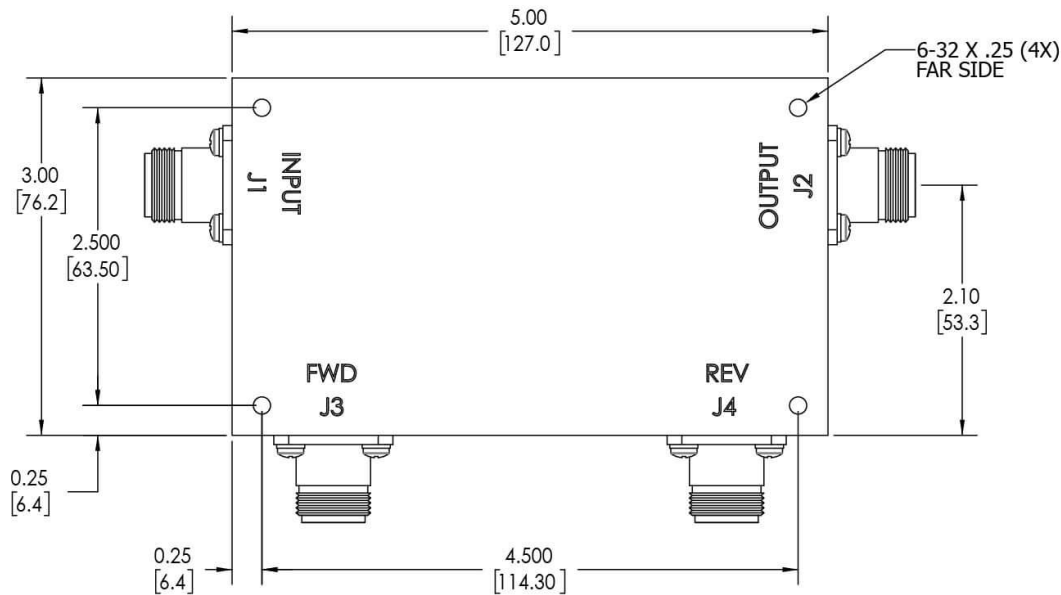


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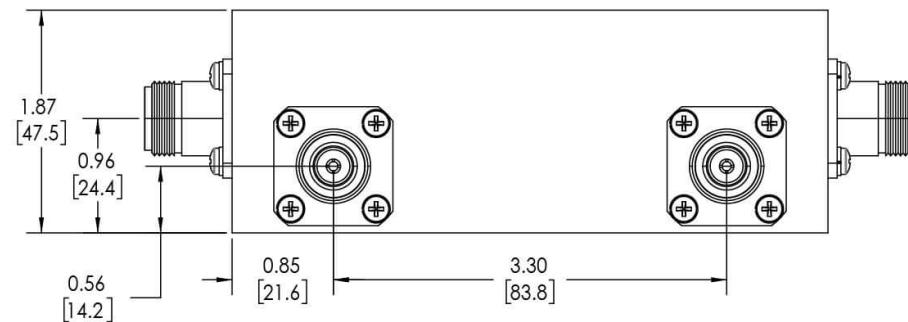
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/15/2019	RB



NOTES: UNLESS OTHERWISE SPECIFIED

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



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING INAW M8-STD-100		SD	5/14/2019	 WERLATONE SINCE 1965			
		DIMENSIONS PER ASME 14.9-2009		CHK	DATE				
		DIMENSIONAL INFO FOR REE ONLY		CS	5/14/2019				
		DIMENSIONS ARE IN INCHES		ENGR	DATE				
		CONCENTRIC LIMITS APPLY BEFORE PROCESSES		DATE		OUTLINE			
		TOLERANCES:		RFGR	DATE				
		ANGLES ± .5° 3 PL ± .005 [13] 2 PL ± .015 [38]		QA	DATE				
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED .002- .003 FIM MACHINE TOOL HATCHING .003 MAX		RLSE	DATE				
NEXT ASSY		USED ON				SIZE	CAGE CODE	DWG NO	REV
APPLICATION		THIRD ANGLE PROJECTION 				B		10046-500	A
						SCALE	1:1		SHEET 1 OF 1

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