
PRODUCT DATA SHEET
C1804

4-Port Bi-Directional Coupler: Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 2 - 32 MHz
 Power: 1000 W CW
 Coupling: 20 ± 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.

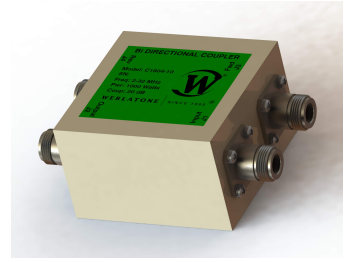
Mechanical Specifications:

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: 3.0 x 3.0 x 1.87"

Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C1804-10	N Female	N 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.

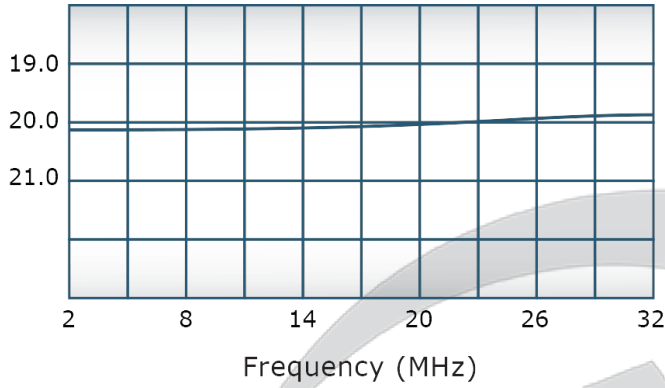


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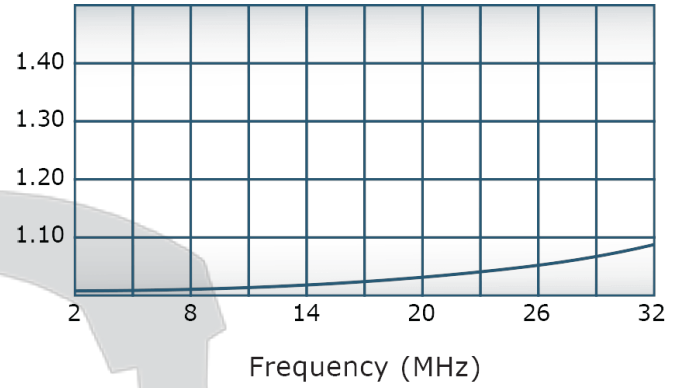
C1804

Performance Data (Specifications subject to change without notice):

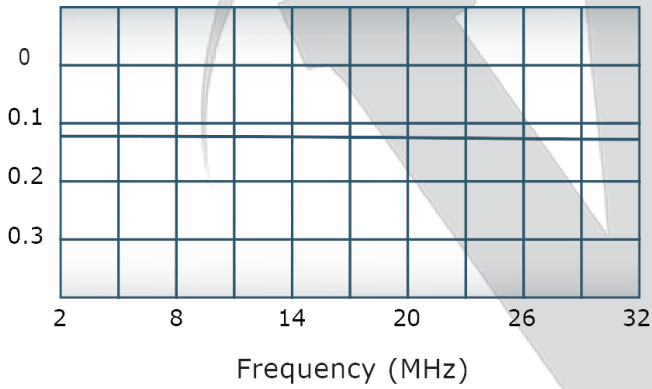
Coupling:



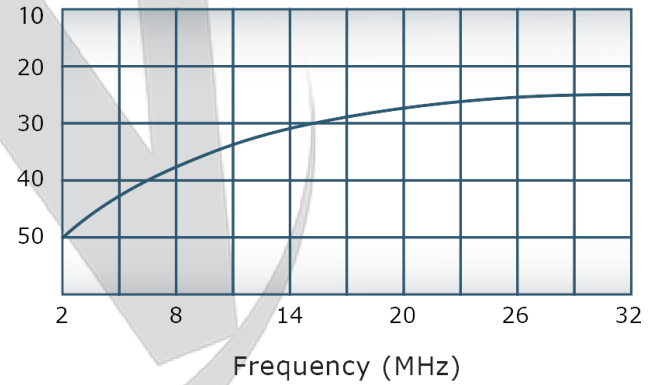
VSWR:



Insertion Loss:



Directivity:



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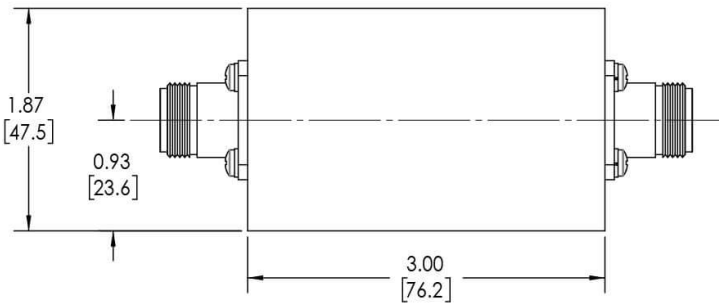
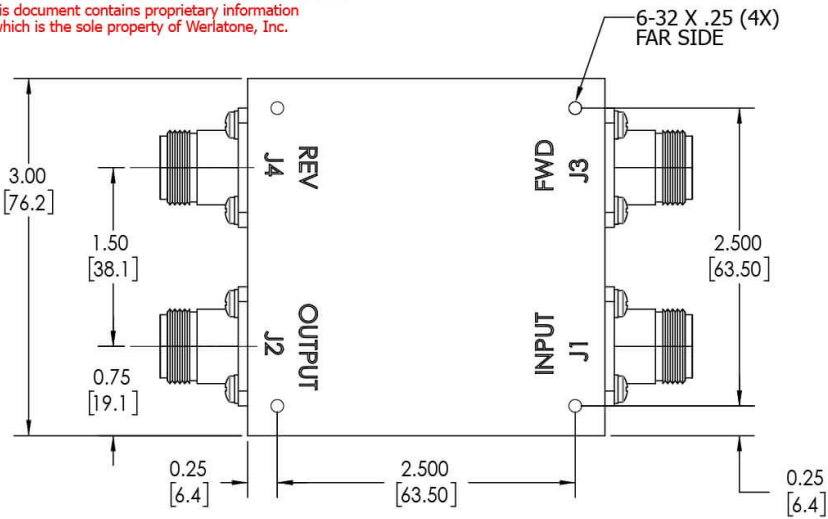
Werlatone, Inc.

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 9696	8/13/2019	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	DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	SD	8/13/2019	
		DIMENSIONS FOR ASME Y14.5M-2009	CHK	DATE	
		PARENTHESES FOR REF ONLY	CS	8/13/2019	
		DIMENSIONS ARE IN INCHES	ENGR	DATE	TITLE
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES			OUTLINE
		TOLERANCES:			SIZE CAGE CODE DWG NO
		ANGLES ± 2°			B 20453-500
		3 PL ± .005 (.13)			REV
		2 PL ± .015 (.38)			A
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
		CONCENTRICITY MACHINED DIA: .002 FIM			
		MACHINE TOOL MISMATCH .003 MAX.			
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION	RLSE	DATE	SCALE
					1:1
APPLICATION					SHEET 1 OF 1

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