

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.

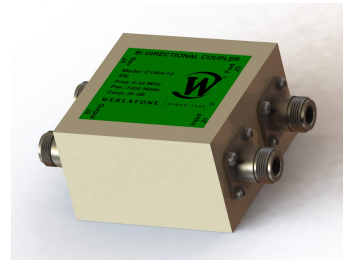
Mechanical Specifications:

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:

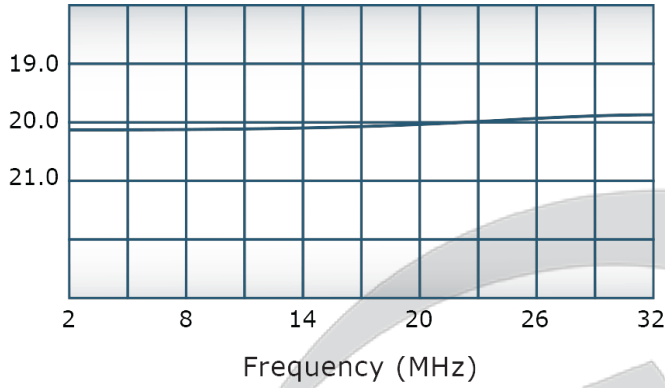
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C1804-10	N Female	N Female	N Female	N Female

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.

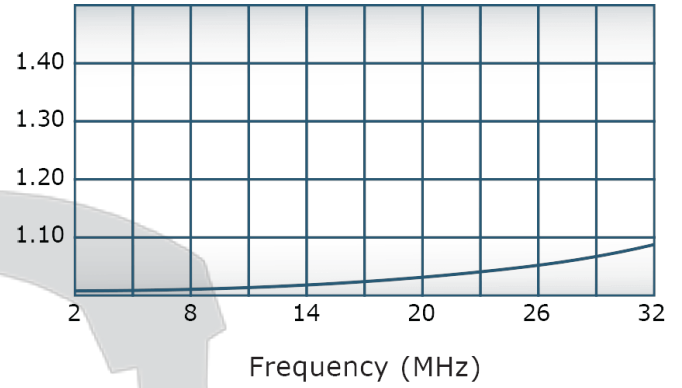


Performance Data (Specifications subject to change without notice):

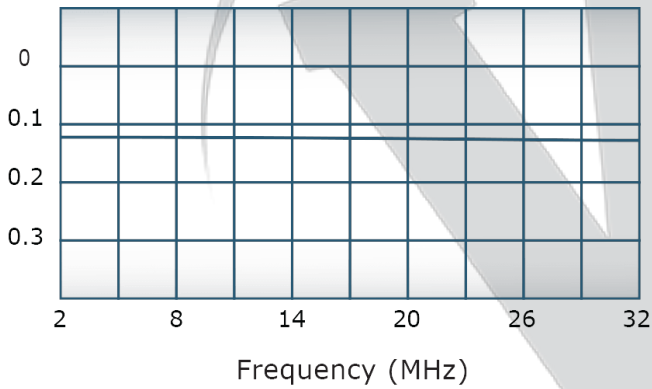
Coupling:



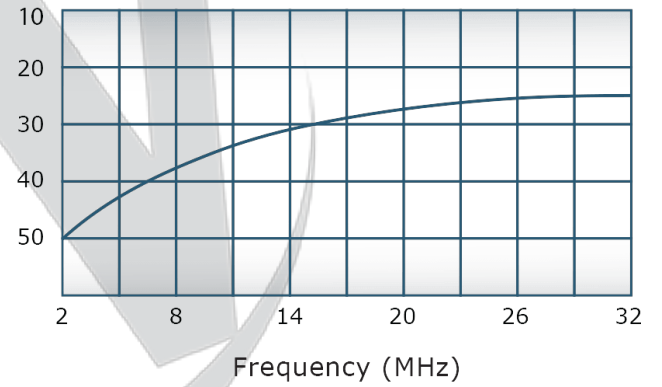
VSWR:



Insertion Loss:

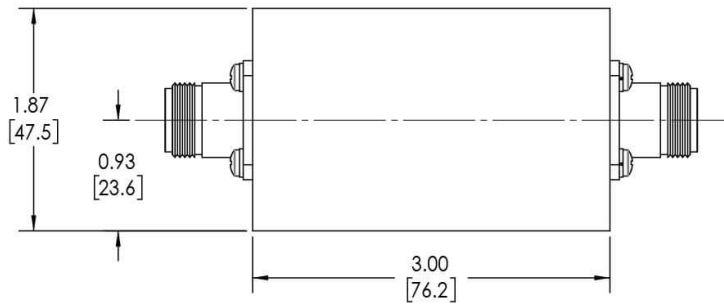
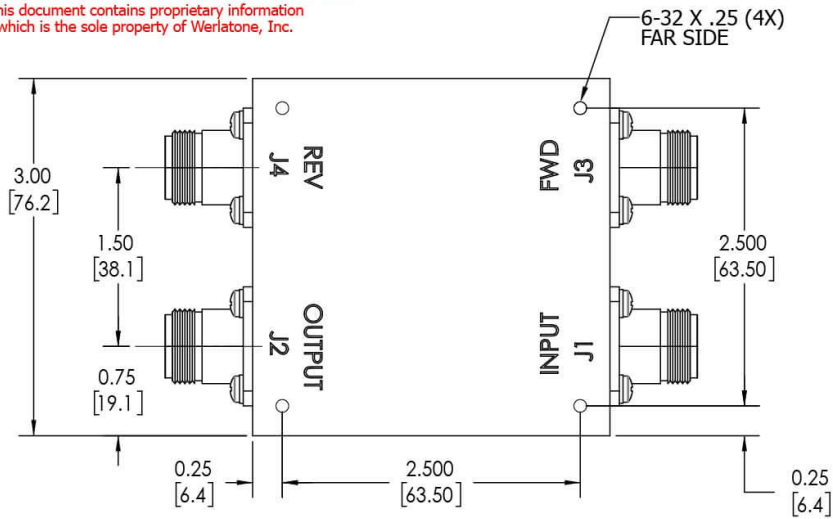


Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	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	W WERLATONE SINCE 1965
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	
PARENTHEetical INFO FOR REF ONLY		CS	8/13/2019	TITLE
DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	SIZE CAGE CODE DWG NO
TOLERANCES:		QA	DATE	B 20453-500
ANGLES ± 2°		RLSE	DATE	SCALE 1:1
3 PL ± .005 [13]		REV A		
2 PL ± .015 [38]		SHEET 1 OF 1		
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		APPLICATION		
CONCENTRICITY MACHINED DIA: .002 FIM		THIRD ANGLE PROJECTION		
MACHINE TOOL MISMATCH .003 MAX.				

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