


PRODUCT DATA SHEET
C10748

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: 2000 - 6500 MHz
Power: 500 W CW
Coupling: 60 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 1.0 dB Max.
VSWR (ML): 1.35:1 Max.
Directivity: 15 dB Min.

Mechanical Specifications:

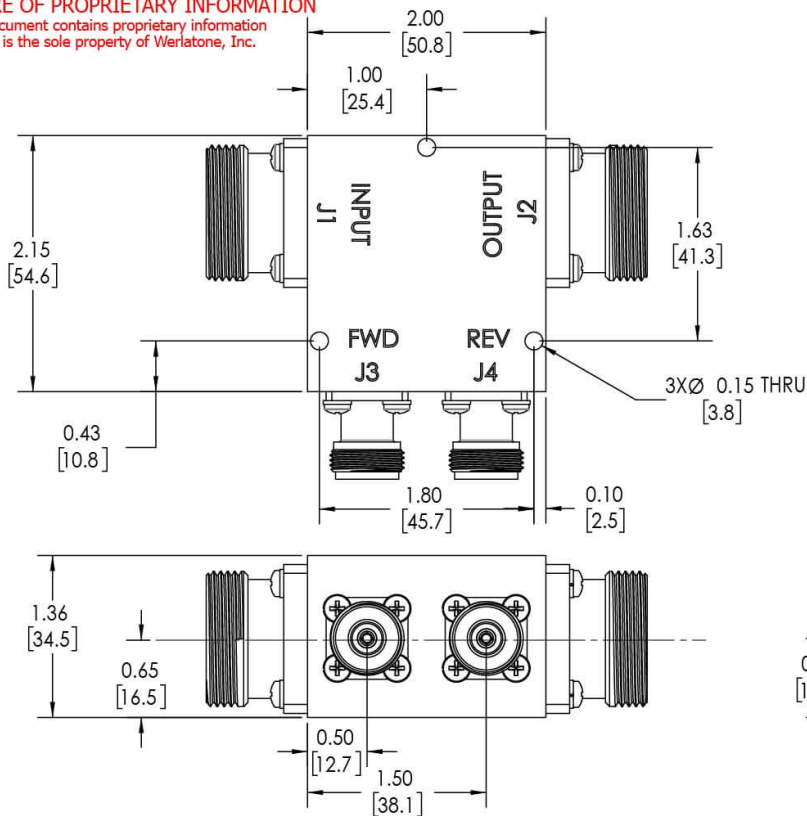
Type: Connectorized
Material: Aluminum 6061-T6
Surface Finish: Chem. Film Per MIL-DTL-5541F
Type I Class 3 (Yellow Iridite)
RoHS Compliant Available
Operating Temperature: -55°C to +75°C
Storage Temperature: -60°C to +85°C
Humidity: 95% Non-Condensing
Size: 2.15 x 2.0 x 1.36"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10748-20	7/16 Female	7/16 Female	N Female	N Female
C10748-22	7/16 Female	7/16 Female	SMA	SMA
C10748-727	7/16 Male	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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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL-RELEASE	5/8/2015	BW
A	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: 7/16 FEMALE
J3,J4: N FEMALE

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE [®] SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
			INTERPRET DRAWING IAW MIL-STD-100	SD	3/25/2019				
			DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE				
			PARENTHESES FOR REF ONLY	CS	3/25/2019		TITLE		
			DIMENSIONS ARE IN INCHES	ENGR	DATE				
			DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE				
			TOLERANCES:						
			ANGLES ± 2°						
			3 PL ± .005 [13]	INFR	DATE				
			2 PL ± .015 [38]						
			REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	QA	DATE		SIZE	CAGE CODE	DWG NO
			CONCENTRICITY MACHINED DIA. .002 FIM						
			MACHINE TOOL MISMATCH .003 MAX	RLSE	DATE				

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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