

PRODUCT DATA SHEET

C10018

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: 50 - 500 MHz
Power: 3000 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.1 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.15:1 Max.
Directivity: 25 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 1.59"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10018-20	7/16 Female	7/16 Female	N Female	N Female
C10018-22	7/16 Female	7/16 Female	SMA	SMA
C10018-23	7/16 Female	7/16 Female	BNC	BNC

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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C10018

Connectorized Directional Couplers

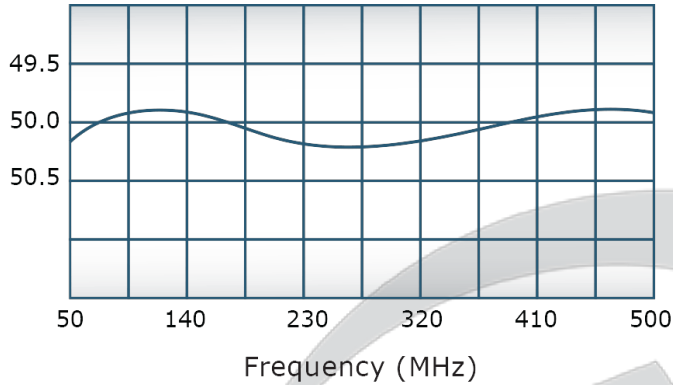


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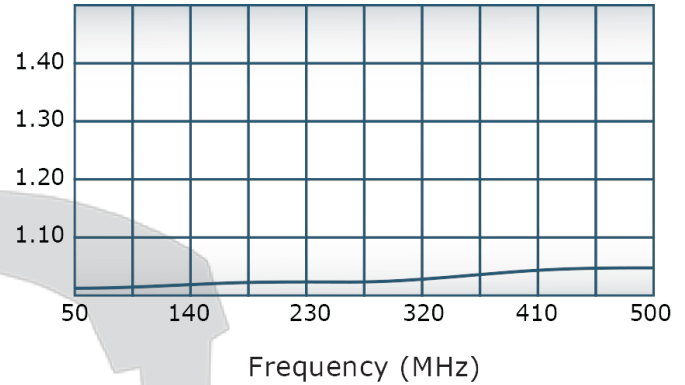
C10018

Performance Data (Specifications subject to change without notice):

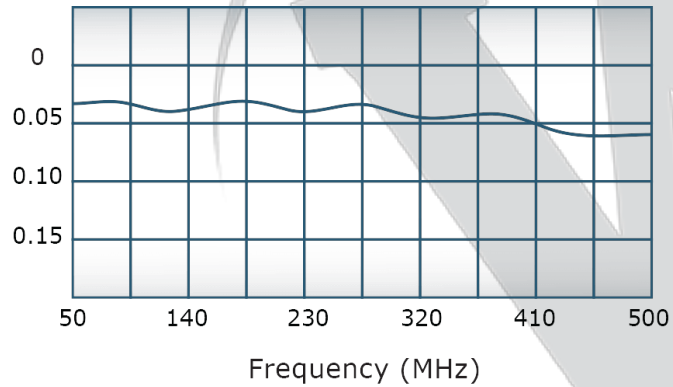
Coupling:



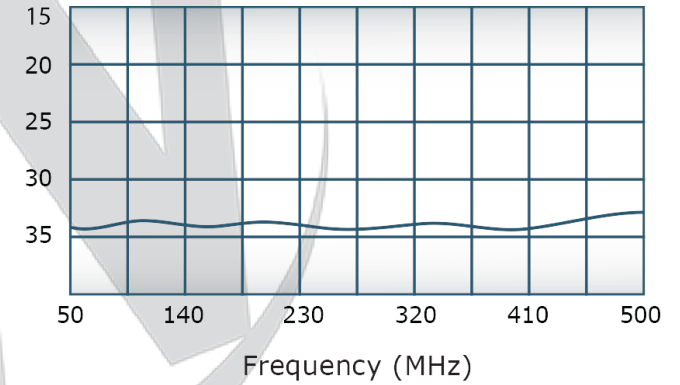
VSWR:



Insertion Loss:



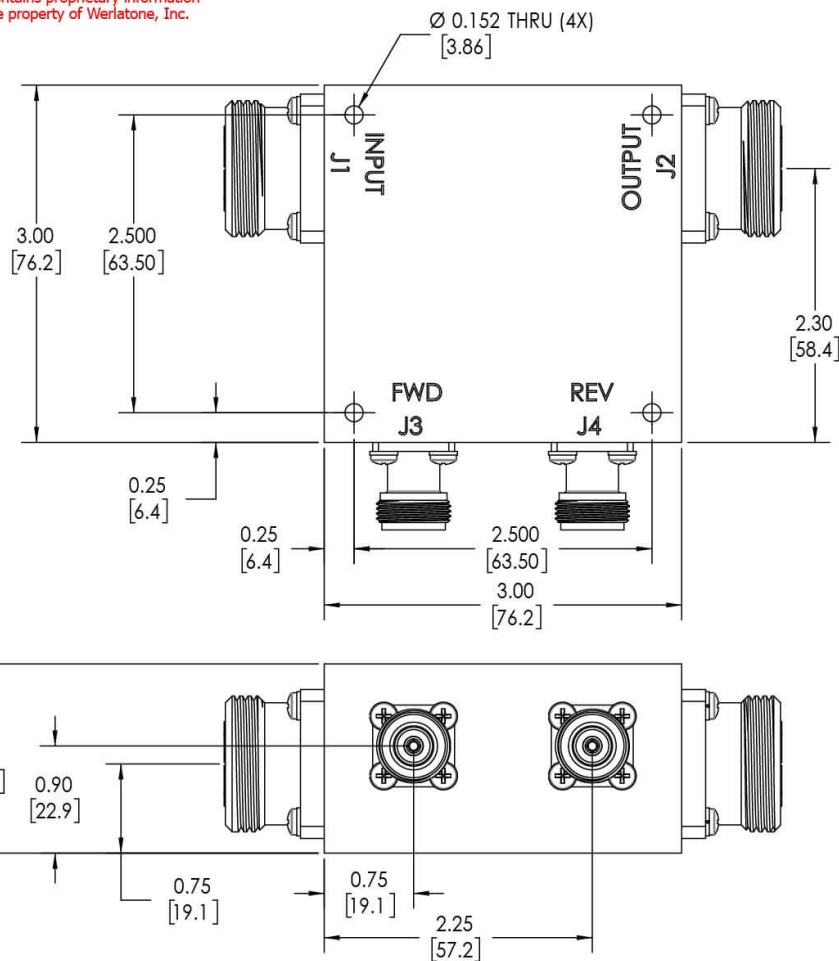
Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/13/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F CLASS I TYPE 3 (YELLOW IRIDITE)**
- CONNECTORS:**
J1, J2: 7/16 FEMALE
J3, J4: N FEMALE

UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	CHK	SD	5/13/2019	WERLATONE SINCE 1965	
DIMENSIONS FOR ASME Y14.5M-2009	CS	DATE	5/13/2019		
PARENTHESES FOR REF ONLY	ENGR	DATE		OUTLINE	
DIMENSIONS ARE IN INCHES	INFR	DATE			
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	QA	DATE		SIZE	CAGE CODE
TOLERANCES:	RLSE	DATE		B	10443-501
ANGLES ± 2°	THIRD ANGLE PROJECTION		SCALE	1:1	REV
3 PL ± .005 [13]					A
2 PL ± .015 [38]	APPLICATION				
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
CONCENTRICITY MACHINED DIA. .002 FIM	SHEET 1 OF 1				
MACHINE TOOL MISMATCH .003 MAX					

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