

PRODUCT DATA SHEET

C10112

3-Port Uni-Directional Coupler: Consists of a main line and a coupled line. One end of the coupled line is internally terminated, while the other end serves as a coupled port. Ideal for sampling and monitoring power in one direction at a given time. It is necessary to physically reverse the orientation of the unit to change from a forward to a reverse power measurement

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 10 - 500 MHz
Power: 100 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.5 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.30:1 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 2.0 x 1.51"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C10112-10	N Female	N Female	N Female
C10112-12	N Female	N Female	SMA
C10112-13	N Female	N Female	BNC
C10112-102	SMA	SMA	SMA

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.



WERLATONE

Model C10112

Connectorized Directional Couplers

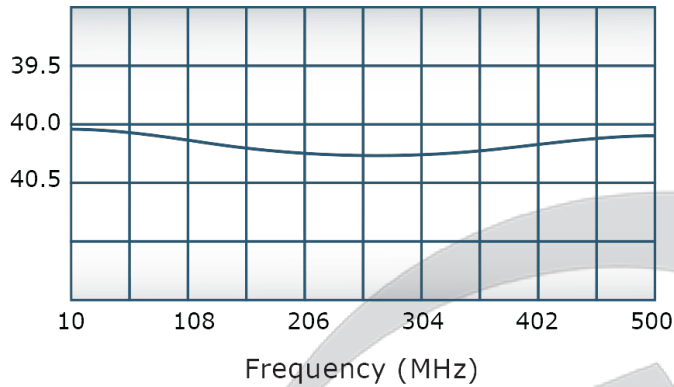


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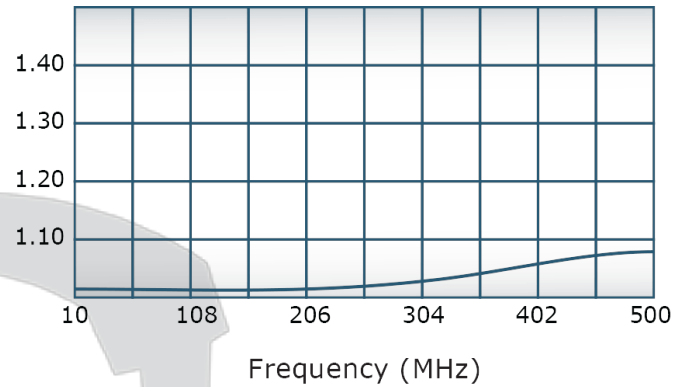
C10112

Performance Data (Specifications subject to change without notice):

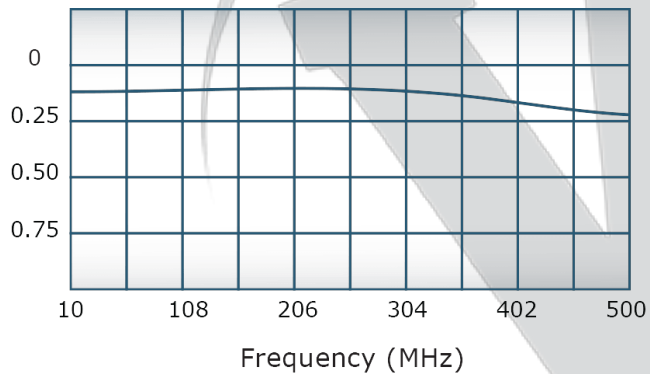
Coupling:



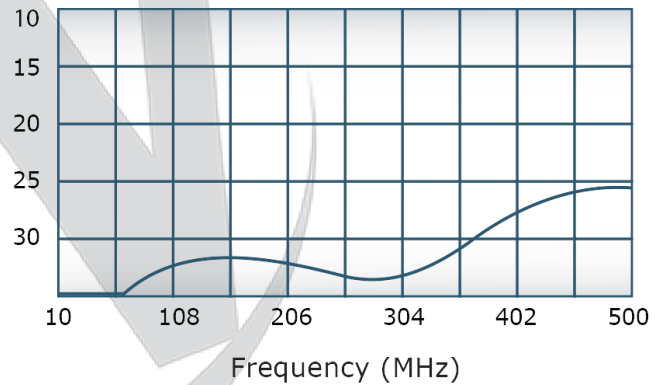
VSWR:



Insertion Loss:



Directivity:



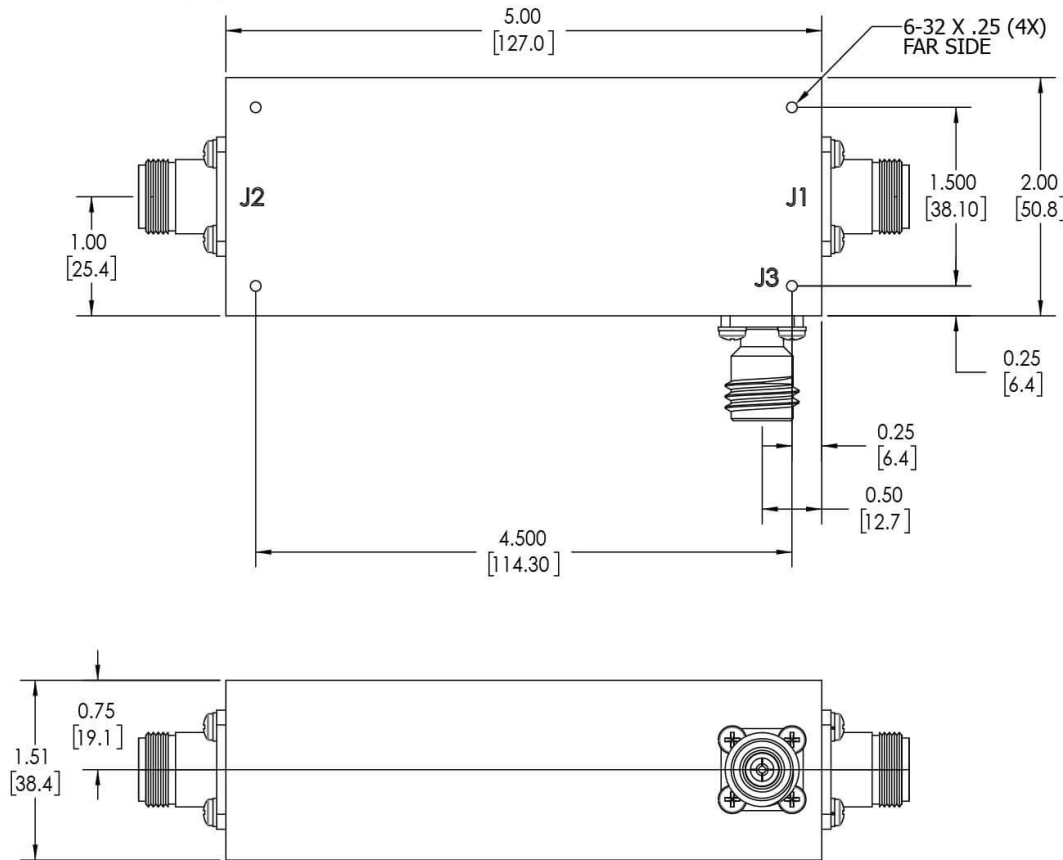
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	7/22/2014	SC
A	ECN9696	5/15/2019	RB

- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
 - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
 - CONNECTORS:**
J1-J3: N FEMALE
J1-INPUT; J2-OUTPUT
J3-FWD



UNLESS OTHERWISE SPECIFIED		DATE	5/14/2019
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	SD	DATE	5/14/2019
DIMENSIONS FOR ASME Y14.5M-2009	CHK	DATE	5/14/2019
PARENTHESES FOR REF ONLY	CS	DATE	5/14/2019
DIMENSIONS ARE IN INCHES	ENGR	DATE	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE	
TOLERANCES:	QA	DATE	
ANGLES ± 2°	RLSE	DATE	
3 PL ± .005 [13]			
2 PL ± .015 [38]			
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
CONCENTRICITY MACHINED DIA. .002 FIM			
MACHINE TOOL MISMATCH .003 MAX			
THIRD ANGLE PROJECTION			

 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
9 TITLE			
OUTLINE			
SIZE	CAGE CODE	DWG NO	REV
B		20676-501	B
SCALE	1:1		SHEET 1 OF 1

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