



PRODUCT DATA SHEET

C11179

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: 2 - 35 MHz
Power: 2500 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.25 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: 4.0 x 2.0 x 1.5"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C11179-10	N Female	N Female	N Female	N Female
C11179-12	N Female	N Female	SMA	SMA
C11179-13	N Female	N Female	BNC	BNC

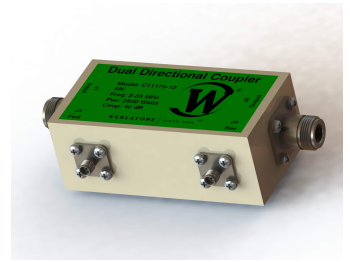
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



WERLATONE

Model C11179

Connectorized Directional Couplers

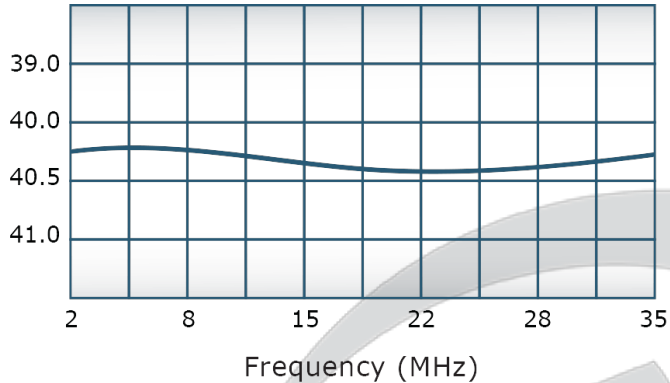


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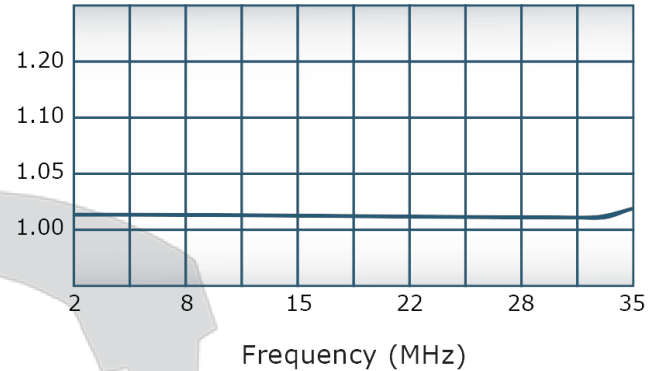
C11179

Performance Data (Specifications subject to change without notice):

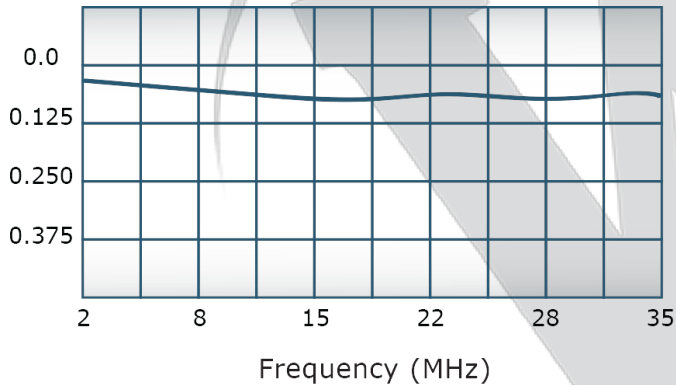
Coupling:



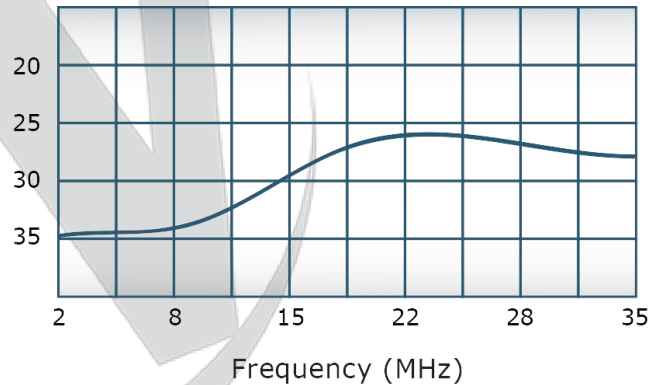
VSWR:



Insertion Loss:



Directivity:



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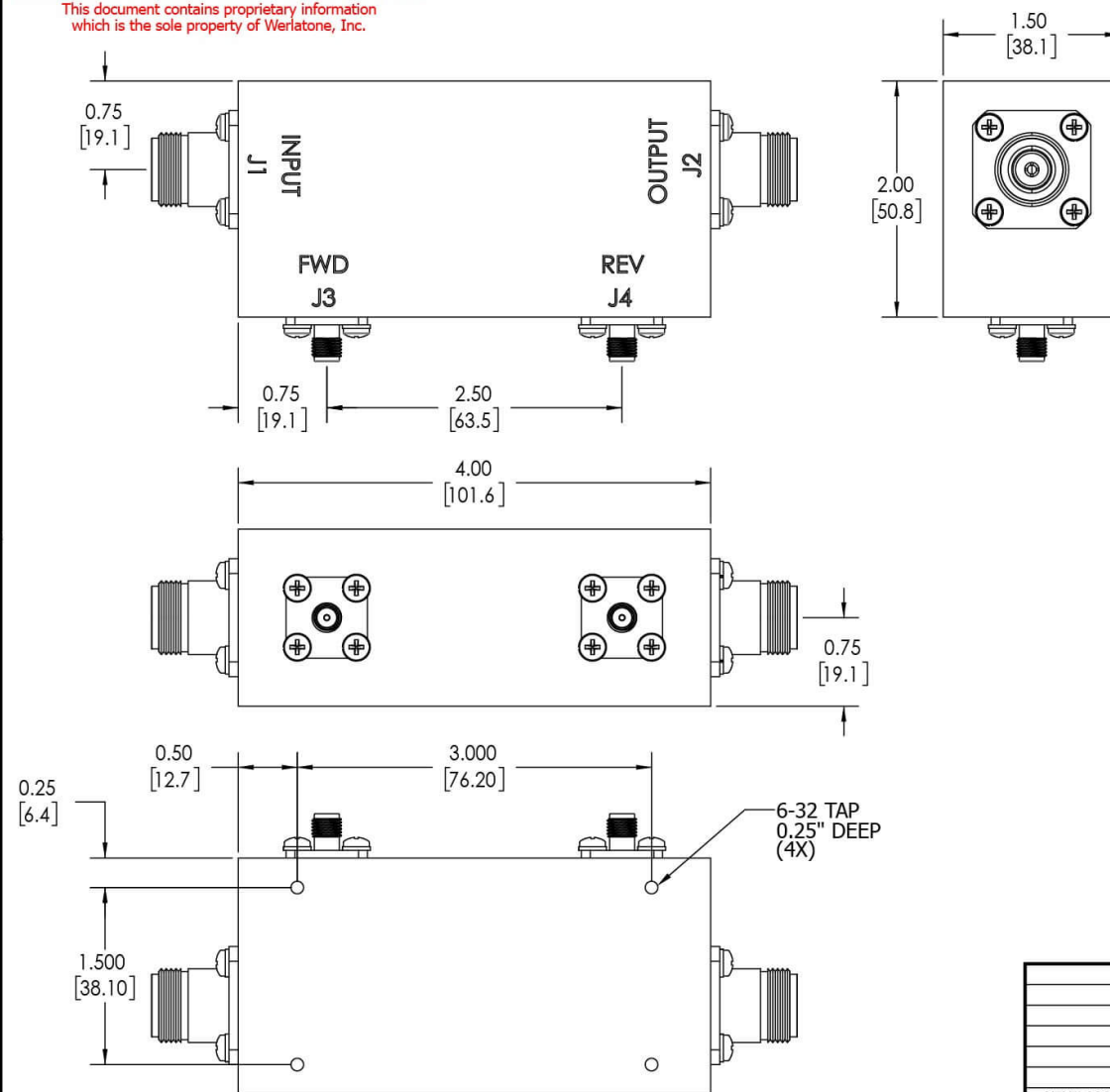
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	3/25/19	RB

NOTES: UNLESS OTHERWISE SPECIFIED

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



UNLESS OTHERWISE SPECIFIED		DATE	3/25/2019	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	SD	DATE	3/25/2019	
DIMENSIONS FOR ASSEMBLY	CHK	DATE	3/25/2019	
PARENTHESES FOR REF ONLY	CS	DATE	3/25/2019	
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		SCALE	1:1	SHEET 1 OF 1
NEXT ASSY USED ON APPLICATION		SIZE	B	REV A
		CAGE CODE	21399-500	
		DWG NO		

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