WERLATONE

Model C11179

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:

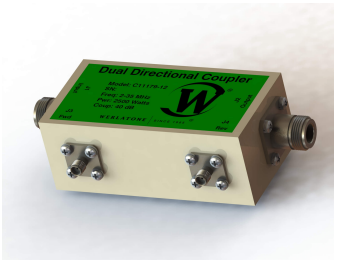
Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Humidity:	95% Non-Condensing
Size:	4.0 x 2.0 x 1.5''

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



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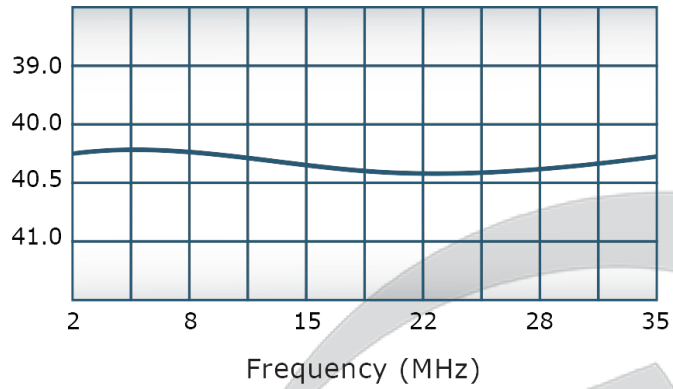
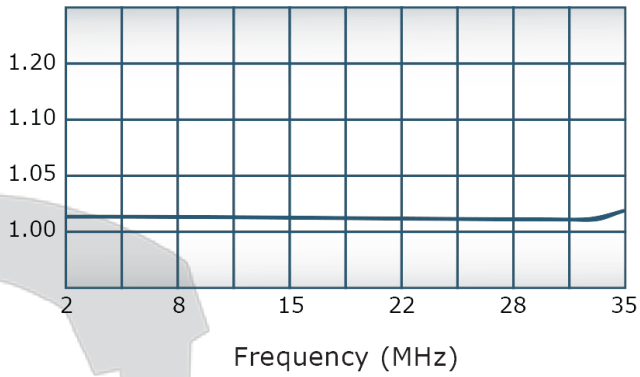
Performance Data (Specifications subject to change without notice):

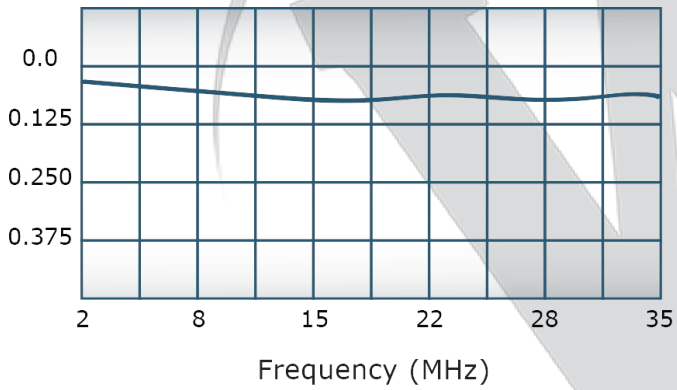
Coupling:



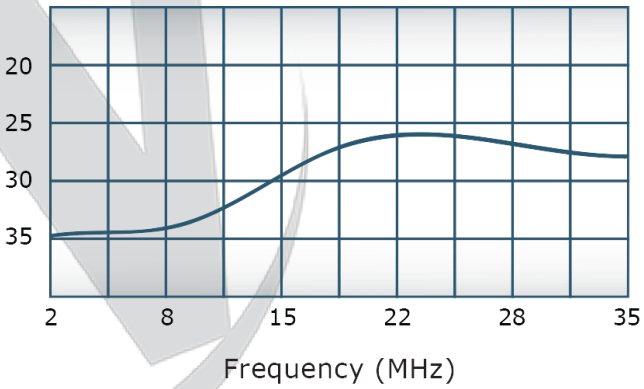
VSWR:



Insertion Loss:



Directivity:



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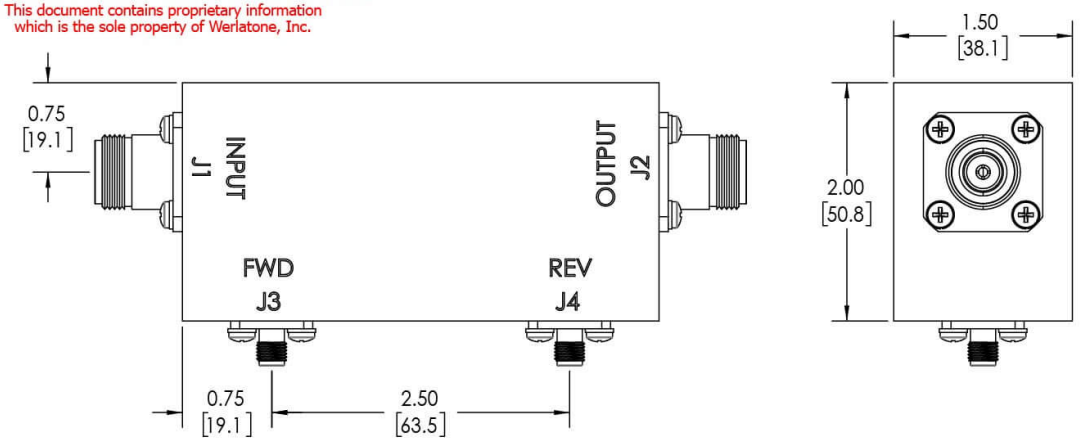
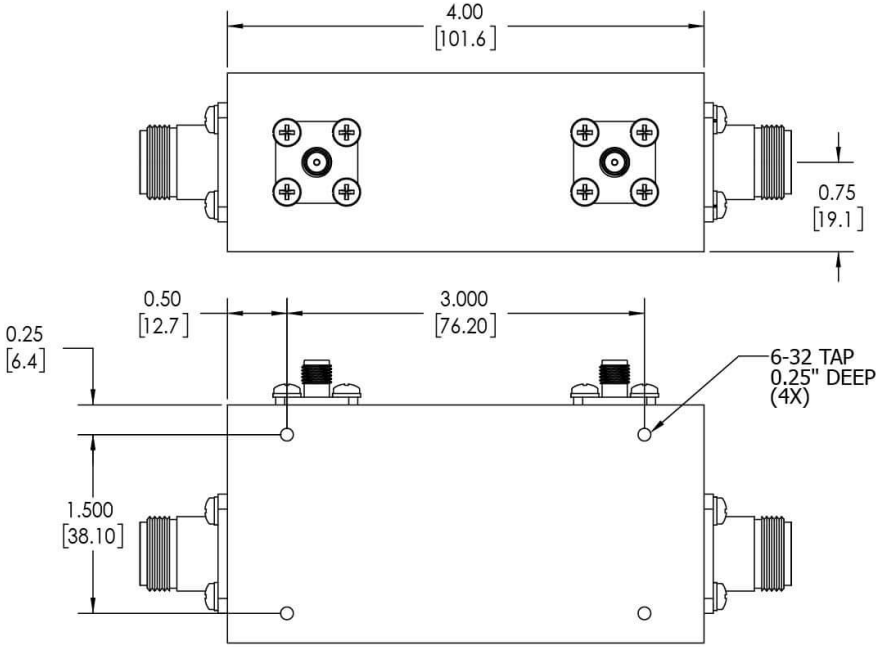
REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	3/25/19	RB





NOTES: UNLESS OTHERWISE SPECIFIED

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

UNLESS OTHERWISE SPECIFIED	DWN	SD	3/25/2019
· INTERPRET DRAWING IAW MIL-STD-100	CHK	CS	3/25/2019
· DIMENSIONING PER ASME Y14.5M-2009	ENGR		
· PARENTHETICAL INFO FOR REF ONLY	MFGR		
· DIMENSIONS ARE IN INCHES	QA		
· DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	RLSE		
· TOLERANCES: ANGLES ± 2° · 3 PL ± .005 [.13] · 2 PL ± .015 [.38]	WERLATONE| SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563
· REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	TITLE		
· CONCENTRICITY MACHINED DIA: .002 FIM	OUTLINE		
· MACHINE TOOL MISMATCH .003 MAX	SIZE	CAGE CODE	DWG NO / REV
NEXT ASSY / USED ON	B		21399-500 / A
APPLICATION	SCALE 1:1		SHEET 1 OF 1
THIRD ANGLE PROJECTION			

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