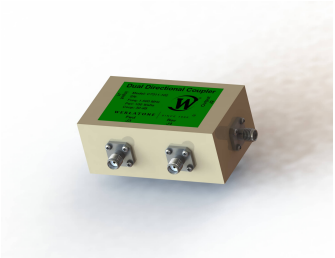
WERLATONE

Model C7311
Connectorized Directional Couplers



PRODUCT DATA SHEET **C7311**

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 simultaneouly 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:	1 - 500 MHz
Power:	100 W CW, 300 W Peak
Coupling:	30 ± 1.0 dB Max.
Flatness:	± 1.0 dB Max.
Insertion Loss:	0.8 dB Max.
VSWR (ML):	1.20:1 Max.
Directivity:	20 dB Min.

Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Suface 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:	2.7 x 1.5 x 1.1"

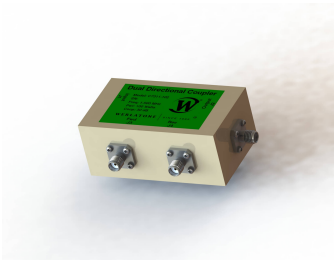
Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7311-10	N Female	N Female	N Female	N Female
C7311-12	N Female	N Female	SMA	SMA
C7311-13	N Female	N Female	BNC	BNC
C7311-102	SMA	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.

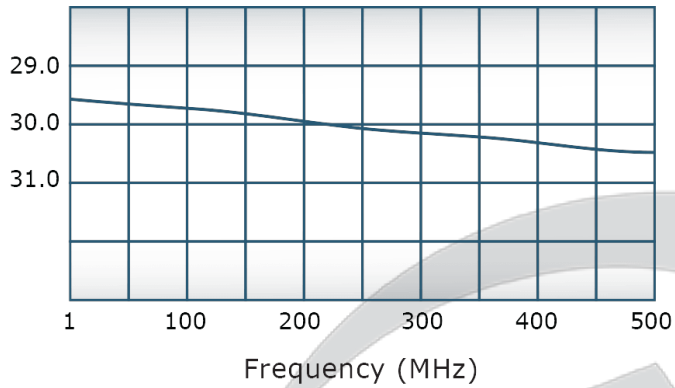
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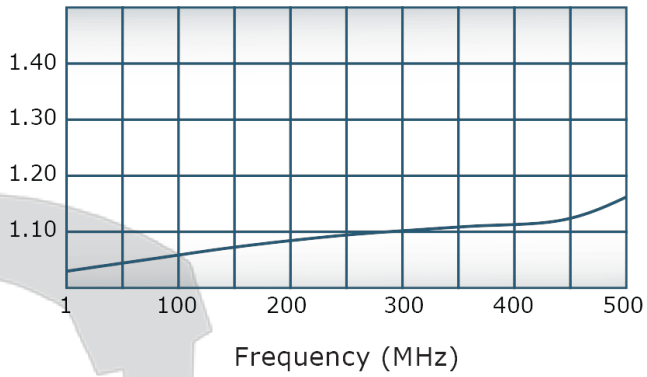


Performance Data (Specifications subject to change without notice):

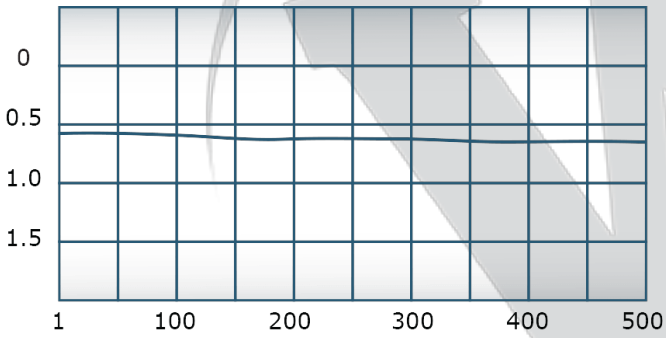
Coupling:



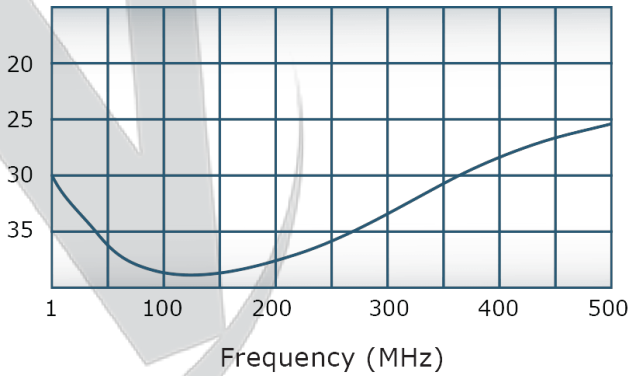
VSWR:



Insertion Loss:



Directivity:



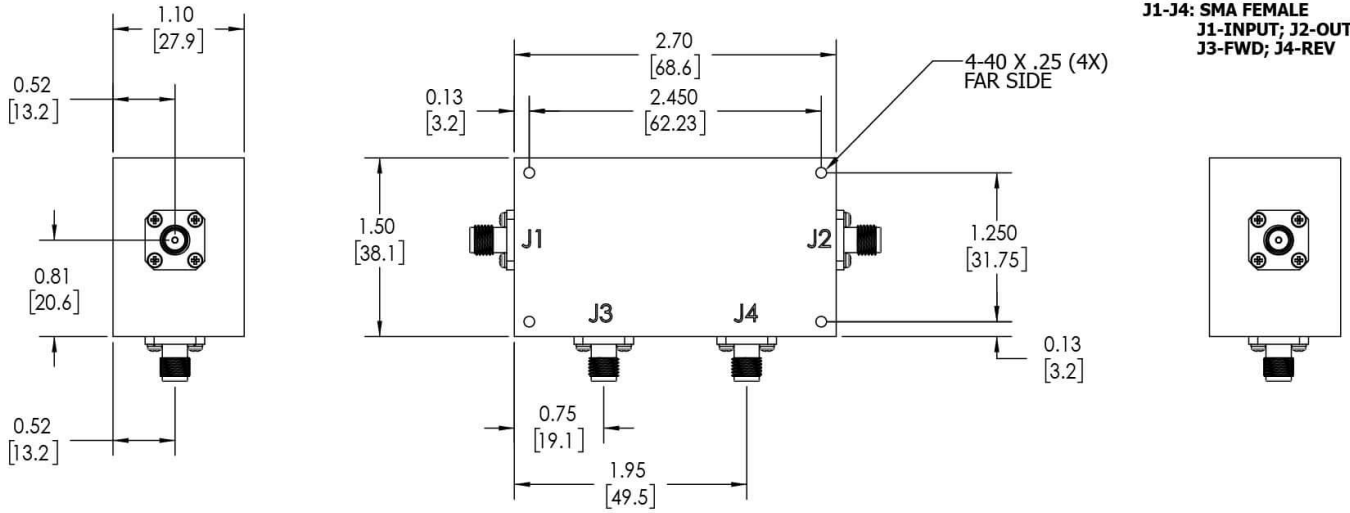
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/14/2019	RB

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-J4: SMA FEMALE
   J1-INPUT; J2-OUTPUT
   J3-FWD; J4-REV



UNLESS OTHERWISE SPECIFIED	DWN	SD	5/14/2019
· INTERPRET DRAWING IAW MIL-STD-100	CHK	CS	5/14/2019
· 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]			
· REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
· CONCENTRICITY MACHINED DIA: .002 FIM			
· MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY / USED ON			
APPLICATION			
THIRD ANGLE PROJECTION			

WERLATONE| SINCE 1965
17 Jon Barrett Rd
Patterson, NY 12563

TITLE: OUTLINE

SIZE	CAGE CODE	DWG NO	REV
B		10685-501	A

SCALE 1:1 SHEET 1 OF 1

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