
PRODUCT DATA SHEET
C6934

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: 0.1 - 1000 MHz
 Power: 150 W CW
 Coupling: 30 ± 1.0 dB Max.
 Insertion Loss: 1.2 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.30:1 Max.
 Directivity: 20 dB Min.

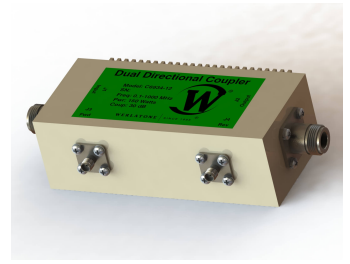
Mechanical Specifications:

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: 5.2 x 2.68 x 1.69"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6934-10	N Female	N Female	N Female	N Female
C6934-12	N Female	N Female	SMA	SMA
C6934-13	N Female	N Female	BNC	BNC
C6934-102	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.

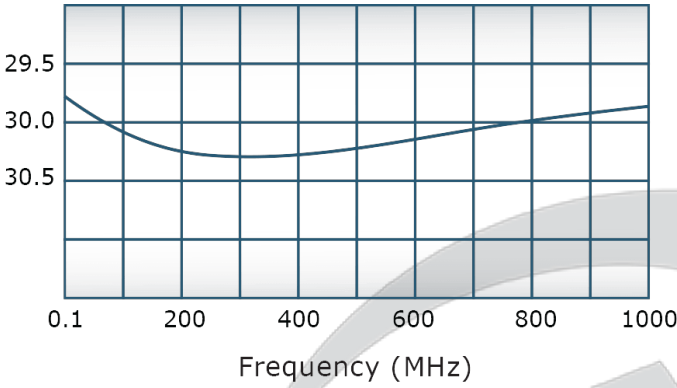


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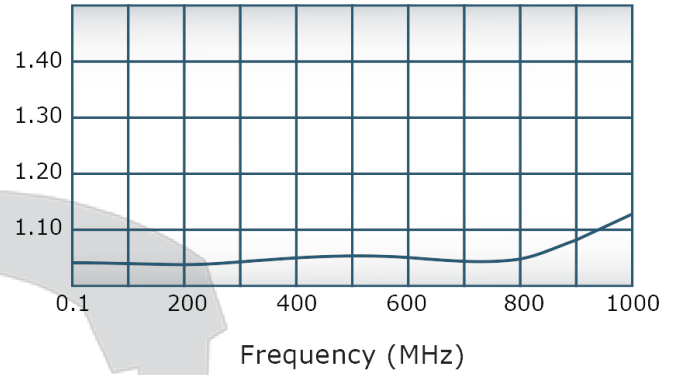
C6934

Performance Data (Specifications subject to change without notice):

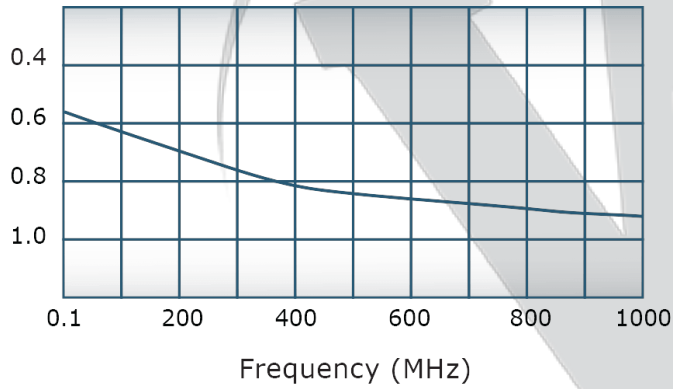
Coupling:



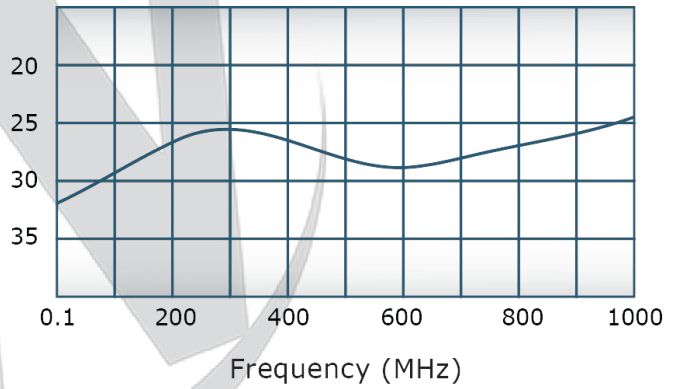
VSWR:



Insertion Loss:



Directivity:



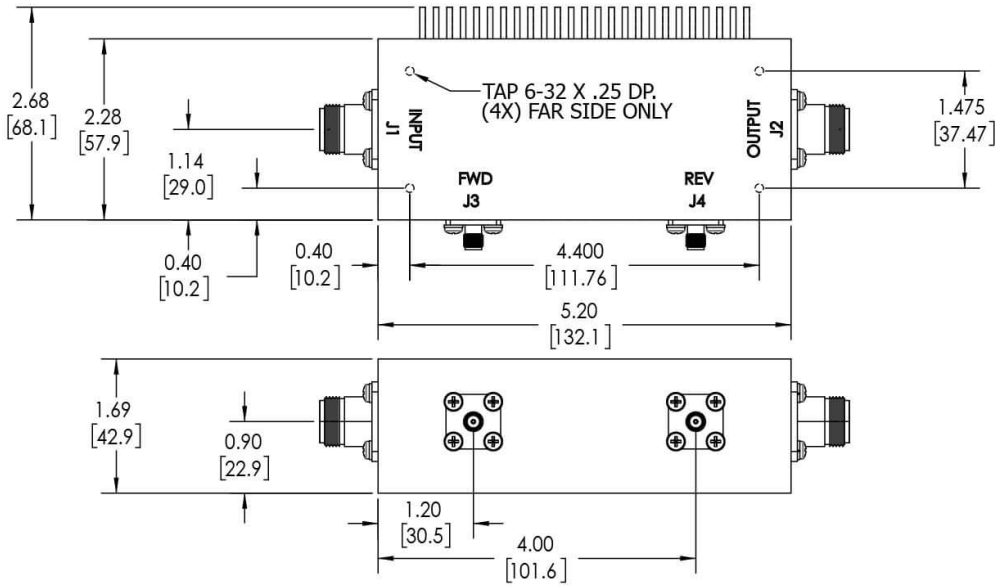
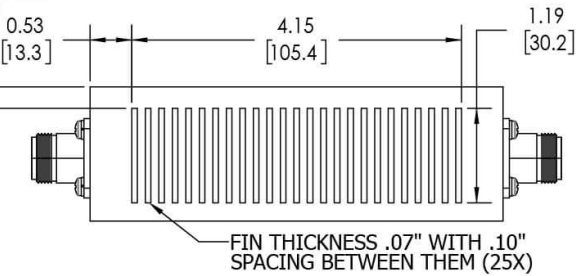
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Werlatone, Inc.

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	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		DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	2/11/2019	W	WERLATONE SINCE 1965
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE		
PARENTHEetical INFO FOR REF ONLY	ENGR	2/11/2019		TITLE
DIMENSIONS ARE IN INCHES	CS	DATE		OUTLINE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	BW	5/28/2008		SIZE CAGE CODE DWG NO
TOLERANCES:	INFR	DATE		B 10407-502
ANGLES ± 2°	QA	DATE		REV
3 PL ± .005 [13]	RLSE	DATE		A
2 PL ± .015 [38]				SCALE
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				1:1.5
CONCENTRICITY MACHINED DIA: .002 FIM				SHEET 1 OF 1
MACHINE TOOL MISMATCH .003 MAX.				
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		
APPLICATION				

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