
**PRODUCT DATA SHEET**
**C6933**

**4-Port Bi-Directional Coupler:** Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

**Features:**

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

**Electrical Specifications:**

Frequency:	60 - 600 MHz
Power:	200 W CW
Coupling:	6 ± 1.0 dB Max.
Insertion Loss:	0.35 dB Max.
Flatness:	± 1.0 dB Max.
VSWR (ML):	1.20:1 Max.
Directivity:	20 dB Min.

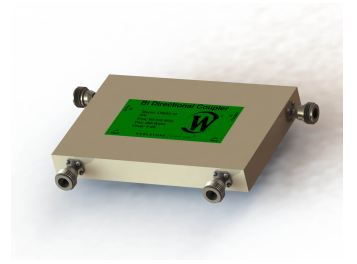
**Mechanical Specifications:**

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:	6.0 x 4.0 x 0.75"
Weight:	1 lb.

**Port Configurations:**

<b>Model</b>	<b>Input (J1)</b>	<b>Output (J2)</b>	<b>Fwd (J3)</b>	<b>Rev (J4)</b>
C6933-10	N Female	N Female	N Female	N Female
C6933-12	N Female	N Female	SMA	SMA
C6933-102	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.

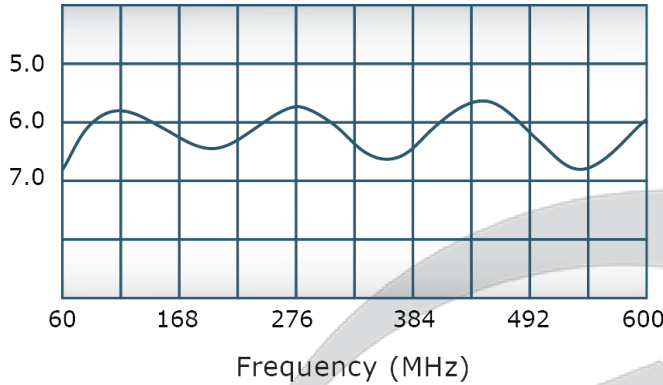


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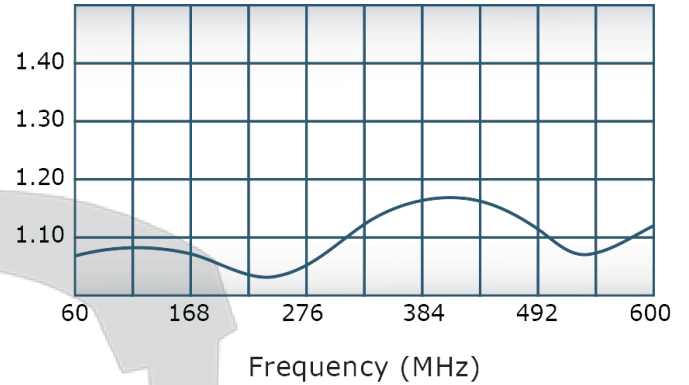
C6933

**Performance Data (Specifications subject to change without notice):**

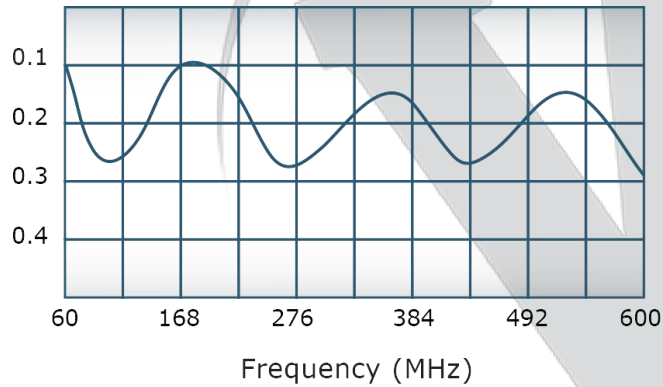
Coupling:



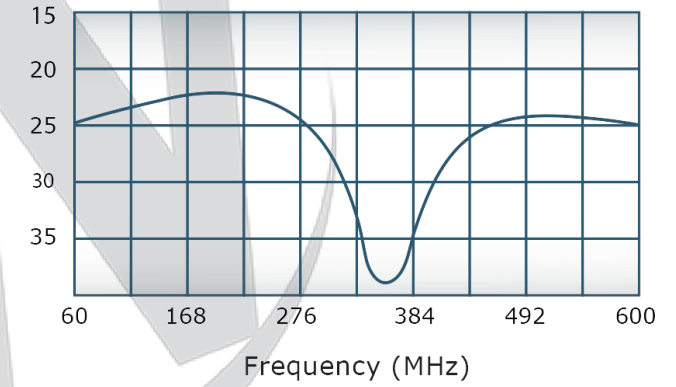
VSWR:



Insertion Loss:



Directivity:



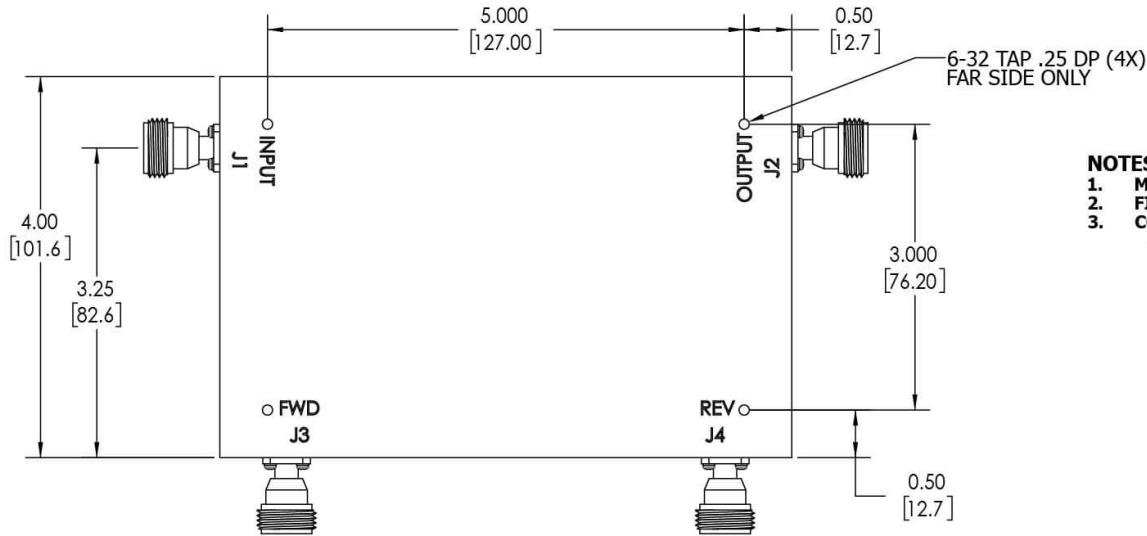
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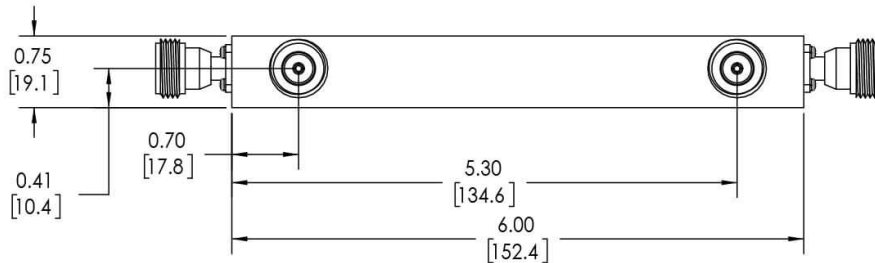
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/12/2019	RB



- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
  - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
  - CONNECTORS: J1-J4: N FEMALE**



UNLESS OTHERWISE SPECIFIED		DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	SD	6/12/2019	WERLATONE SINCE 1965			
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE				
PARENTHEetical INFO FOR REF ONLY	CS	6/12/2019	<b>OUTLINE</b>			
DIMENSIONS ARE IN INCHES	ENGR	DATE				
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE	SIZE	CAGE CODE	DWG NO	REV
TOLERANCES:	QA	DATE	B	10941-500	A	
ANGLES ± 2°	RLSE	DATE	SCALE	1:1.25	SHEET 1 OF 1	
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	THIRD ANGLE PROJECTION				
APPLICATION						

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