

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.

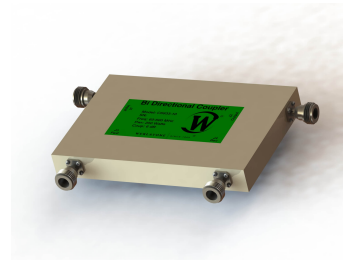
Mechanical Specifications:

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:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
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.

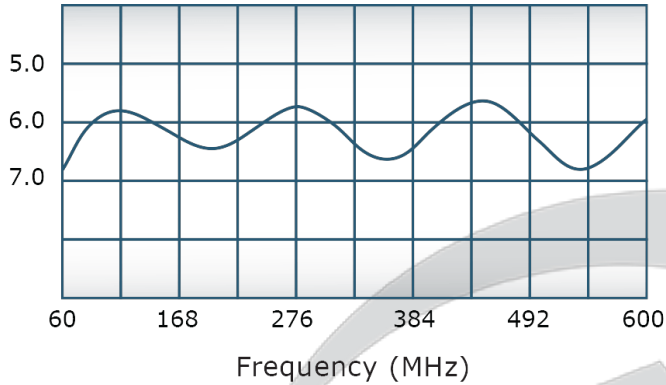


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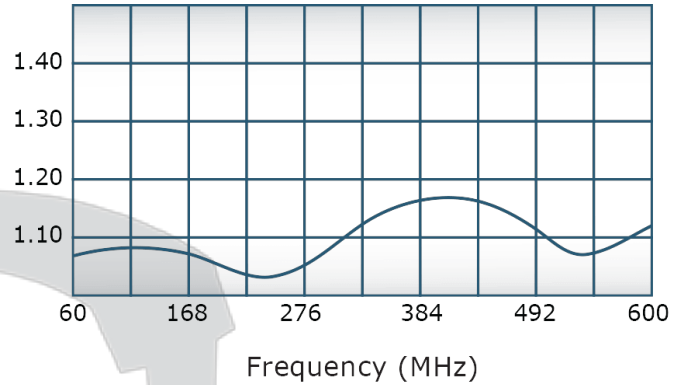
C6933

Performance Data (Specifications subject to change without notice):

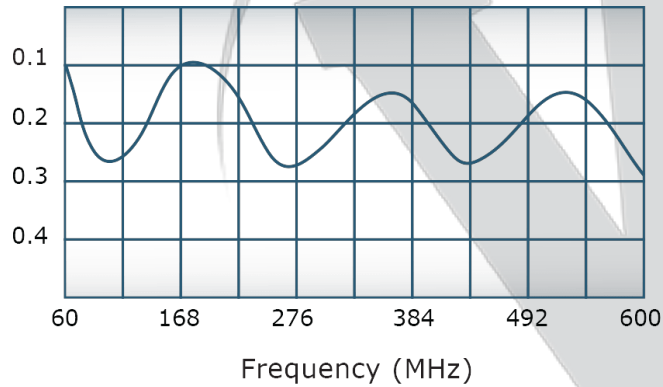
Coupling:



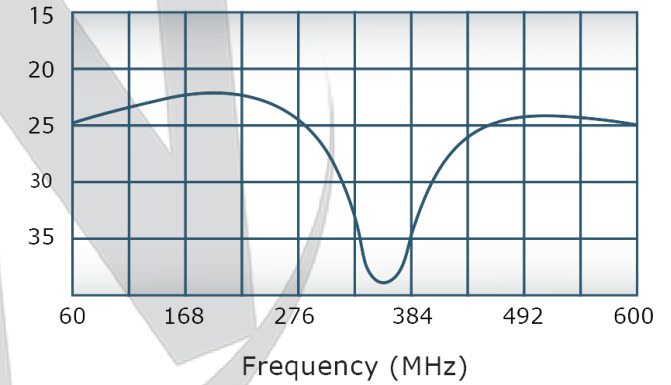
VSWR:



Insertion Loss:



Directivity:

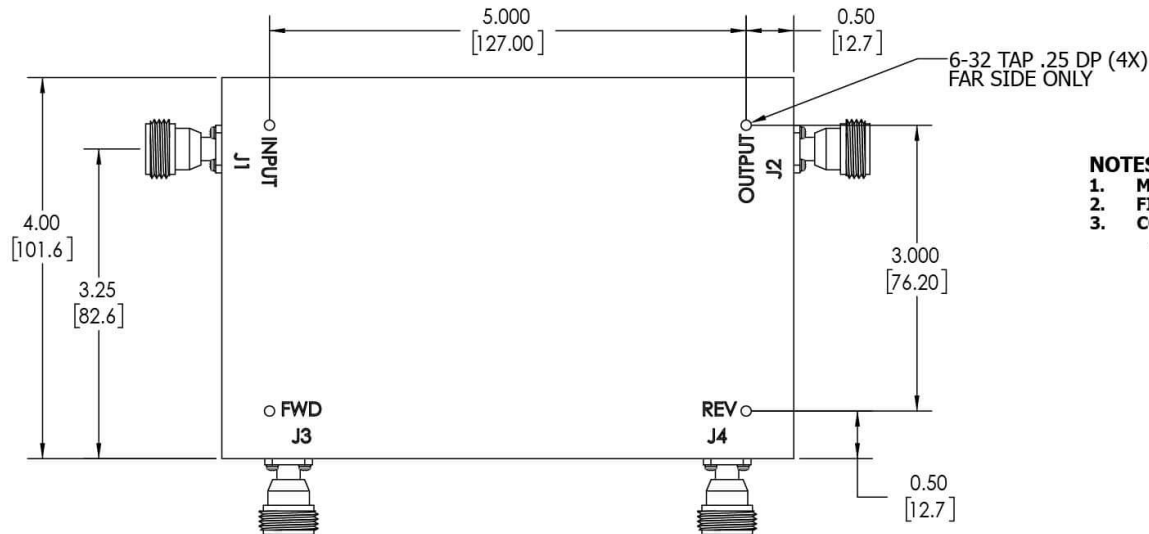


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/12/2019	RB



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: N FEMALE



		UNLESS OTHERWISE SPECIFIED		OWN	DATE			WERLATONE [®] SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IAW MIL-STD-100		SD	DATE	6/12/2019					
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE						
		DIMENSIONAL INFO FOR REF ONLY		CS	DATE	6/12/2019		TITLE			
		DIMENSIONS ARE IN INCHES		ENGR	DATE						
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		DATE	DATE						
		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		QA	DATE	SIZE	CAGE CODE	DWG NO			REV
						B		10941-500			A
APPLICATION		THIRD ANGLE PROJECTION 		BLSE	DATE	SCALE	1:1.25				SHEET 1 OF 1

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