

## PRODUCT DATA SHEET

C7926

**3-Port Uni-Directional Coupler:** Consists of a main line and a coupled line. One end of the coupled line is internally terminated, while the other end serves as a coupled port. Ideal for sampling and monitoring power in one direction at a given time. It is necessary to physically reverse the orientation of the unit to change from a forward to a reverse power measurement.

### Features:

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

### Electrical Specifications:

Frequency: 0.01 - 250 MHz  
Power: 100 W CW  
Coupling:  $30 \pm 1.0$  dB Max.  
Insertion Loss: 0.4 dB Max.  
Flatness:  $\pm 0.5$  dB Max.  
VSWR (ML): 1.20:1 Max.  
Directivity: 20 dB Min.

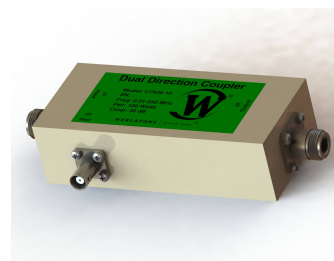
### Mechanical Specifications:

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: 5.2 x 2.675 x 1.69"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C7926-10	N Female	N Female	N Female
C7926-12	N Female	N Female	SMA
C7926-13	N Female	N Female	BNC
C7926-102	SMA	SMA	SMA
C7926-613	N Female	N Male	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.

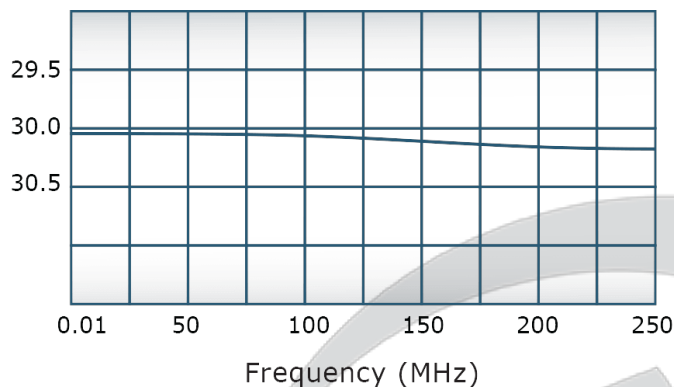


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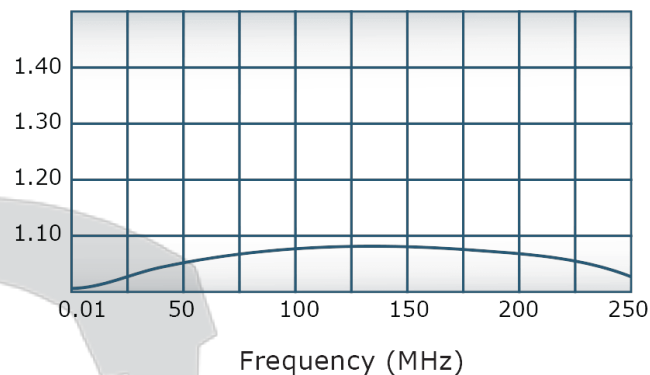
C7926

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

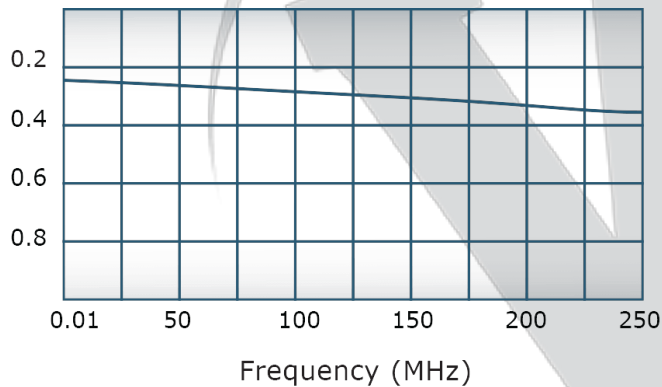
Coupling:



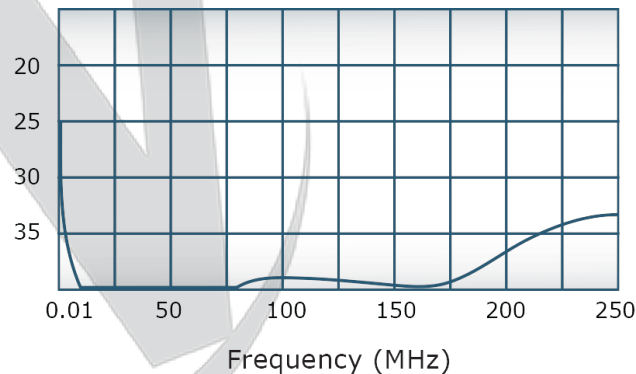
VSWR:



Insertion Loss:



Directivity:



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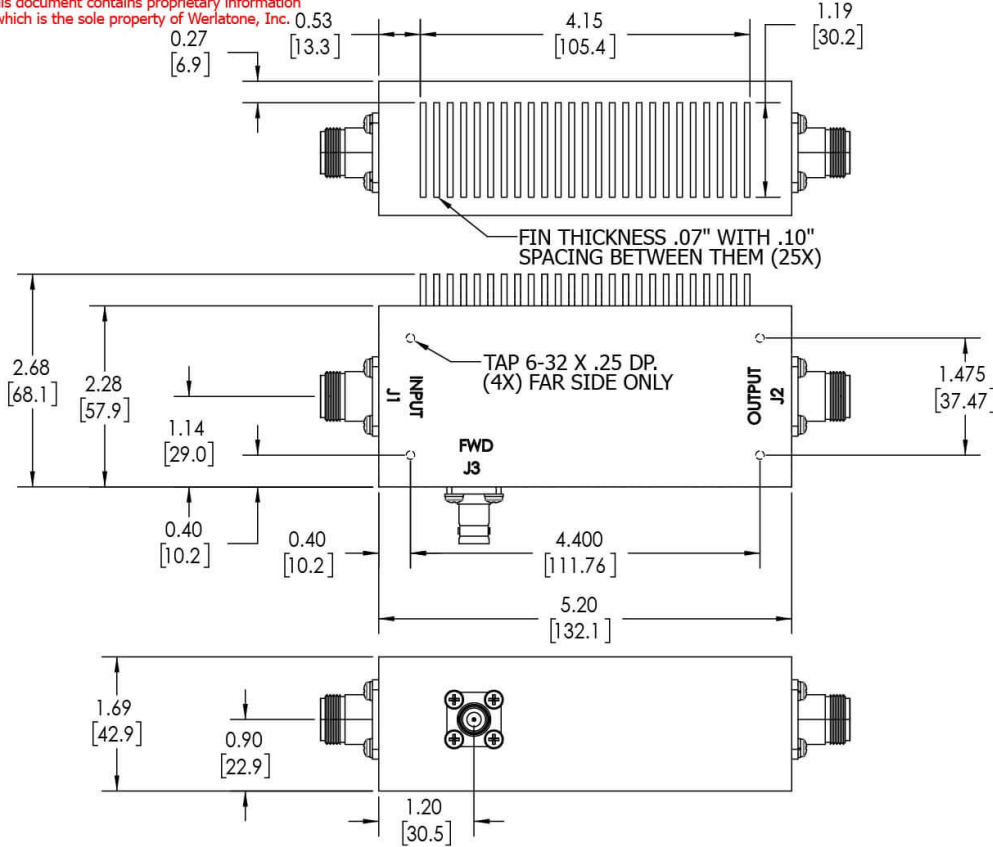
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 3933	1/06	CS
B	ECN 9696	11/30/2018	RB

**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: BNC FEMALE**



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE  SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/2019	CHK	DATE	TITLE  <b>OUTLINE</b>			
DIMENSIONS PER ASME Y14.5M-2009		CS	2/11/2019	ENGR	DATE				
DIMENSIONAL INFO FOR REF ONLY									
DIMENSIONS ARE IN INCHES									
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES									
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
APPLICATION		THIRD ANGLE PROJECTION 		RLSE	DATE	SCALE	10407-503		B
						1:1.5		SHEET 1 OF 1	

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