
**PRODUCT DATA SHEET**
**C7915**

**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:            500 - 2000 MHz  
 Power:                50 W CW  
 Coupling:             30 ± 1.0 dB Max.  
 Insertion Loss:       0.2 dB Max.  
 Flatness:             ± 0.3 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:                    3.0 x 3.0 x 1.09"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)
C7915-10	N Female	N Female	N Female
C7915-12	N Female	N Female	SMA
C7915-102	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.

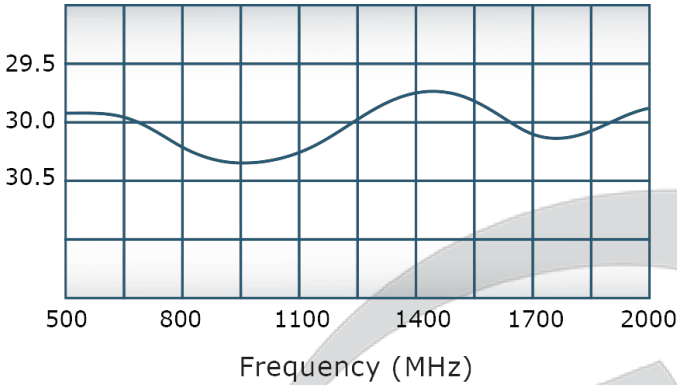


## PRODUCT DATA SHEET

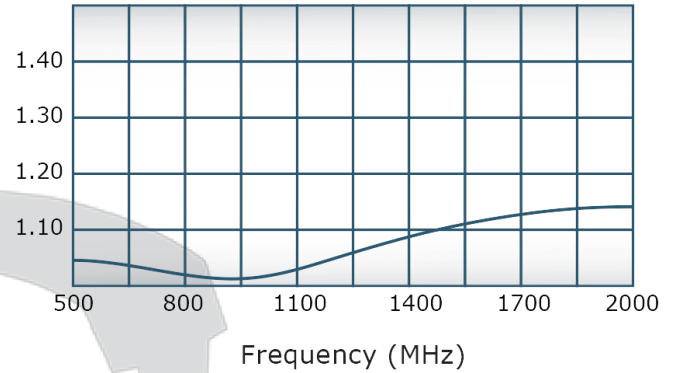
C7915

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

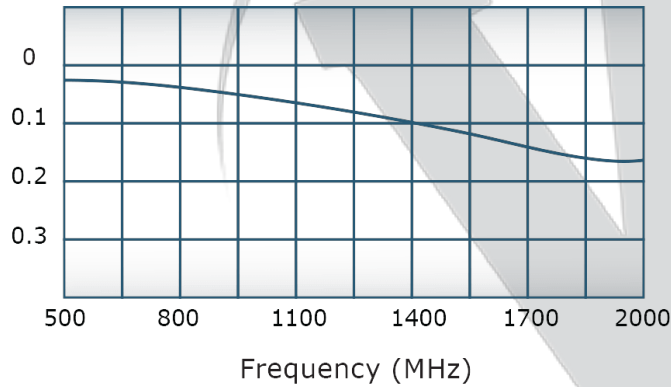
Coupling:



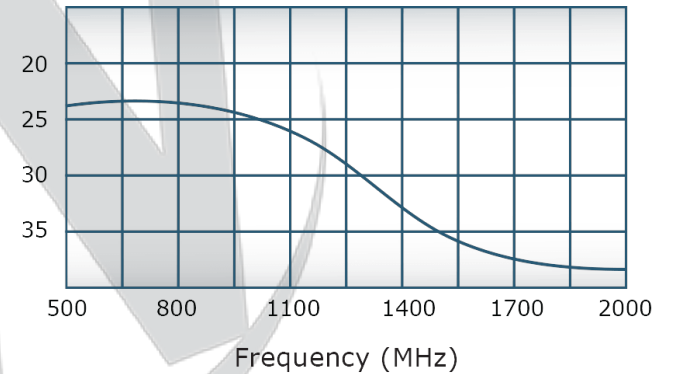
VSWR:



Insertion Loss:



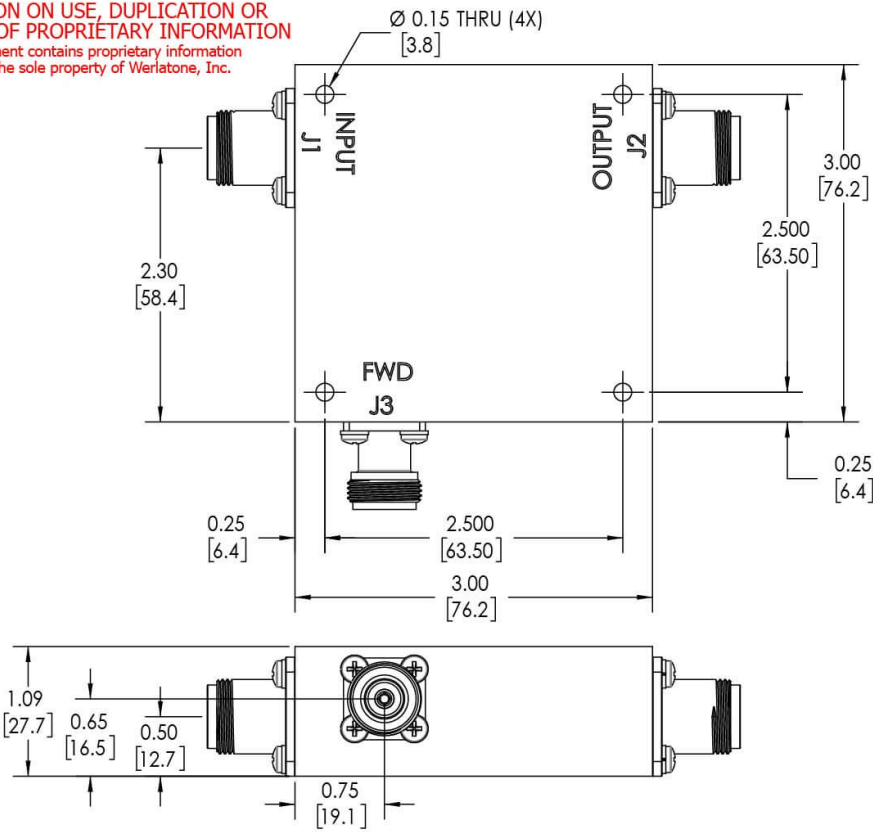
Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	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: N FEMALE**

UNLESS OTHERWISE SPECIFIED		DWN	DATE	<b>WERLATONE SINCE 1965</b> 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/2019	
DIMENSIONS FOR ASME Y14.5M-2009		CHK	DATE	TITLE
PARENTHESES INFO FOR REF ONLY		CD	2/11/2019	
DIMENSIONS ARE IN INCHES		ENGR	DATE	SIZE CAGE CODE DWG NO <b>B 10379-510</b>
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	
TOLERANCES:		QA	DATE	REV A
ANGLES = 2°		RLSE	DATE	
3 PL ± .005 [13]				SCALE 1:1
2 PL ± .015 [38]				
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				SHEET 1 OF 1
CONCENTRICITY MACHINED DIA: .002 FIM				
MACHINE TOOL MISMATCH .003 MAX				
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		
APPLICATION				

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