
**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.

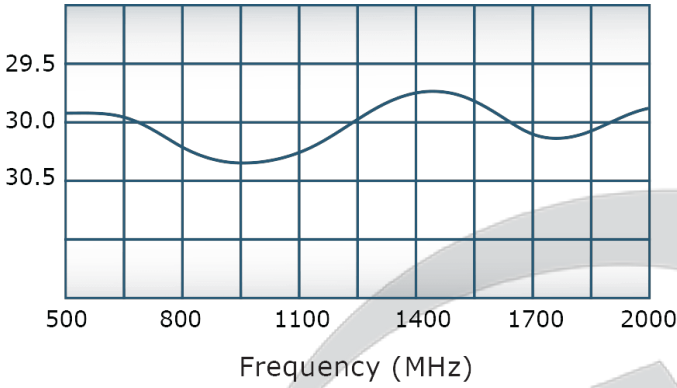


## PRODUCT DATA SHEET

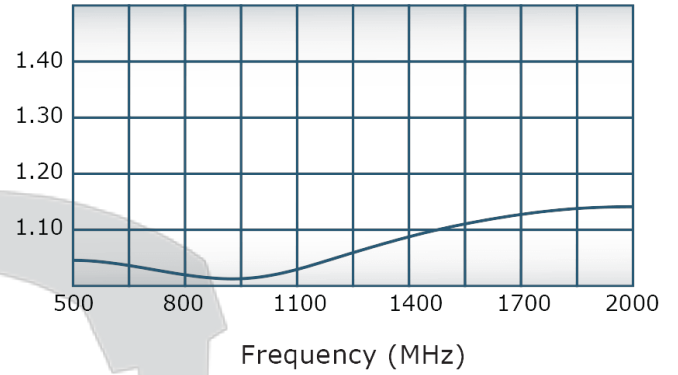
C7915

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

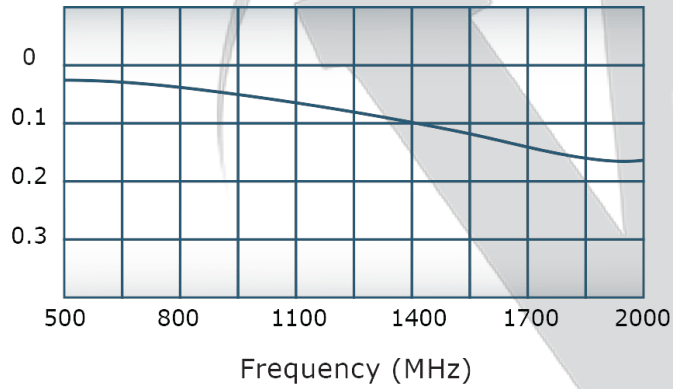
Coupling:



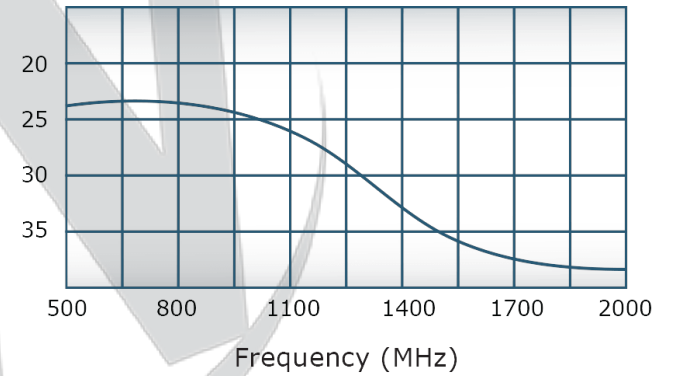
VSWR:



Insertion Loss:



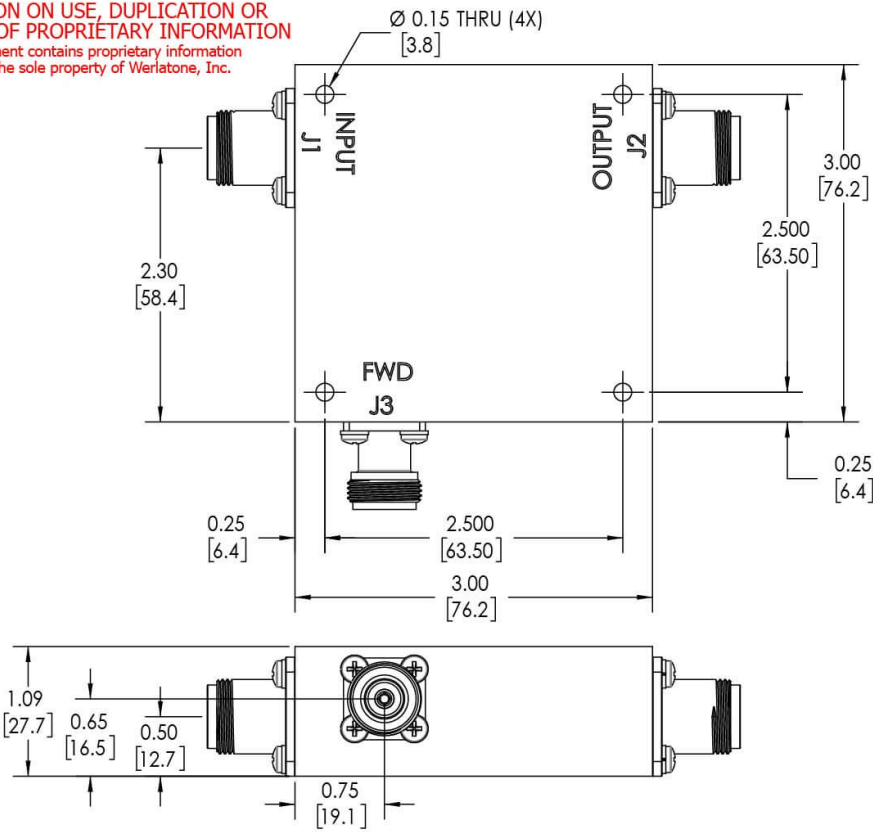
Directivity:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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

**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**  
 This document contains proprietary information which is the sole property of Werlatone, Inc.



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 DIMENSIONS PER ASME Y14.5M-2009 PARENTHESES FOR REF ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		SD	2/11/2019	
TOLERANCES:		CHK	DATE	TITLE
ANGLES ± 2° 3 PL ± .005 [13] 2 PL ± .015 [38]		CD	2/11/2019	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA: .002 FIM MACHINE TOOL MISMATCH .003 MAX.		ENGR	DATE	SIZE
NEXT ASSY	USED ON	INFR	DATE	CAGE CODE
APPLICATION	THIRD ANGLE PROJECTION	QA	DATE	DWG NO
		RLSE	DATE	REV
				SCALE
				10379-510
				1:1
				SHEET 1 OF 1

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.  
 Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com