


**PRODUCT DATA SHEET**
**C8671**

**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:            300 - 3000 MHz  
 Power:                100 W CW  
 Coupling:             10 ± 1.0 dB Max.  
 Insertion Loss:      0.35 dB Max.  
 Flatness:             ± 1.0 dB Max.  
 VSWR (ML):         1.20:1 Max.  
 Directivity:          15 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:                    3.7 x 2.0 x 0.75"  
 Weight:                9 ounces

**Connector Configurations:**

<b>Model</b>	<b>Input (J1)</b>	<b>Output (J2)</b>	<b>Fwd (J3)</b>
C8671-10	N Female	N Female	N Female
C8671-12	N Female	N Female	SMA
C8671-102	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.

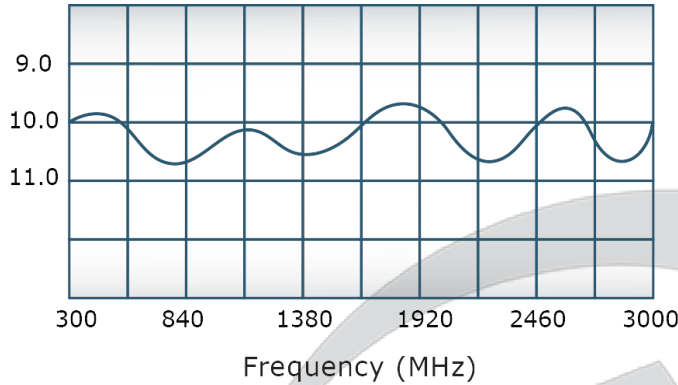


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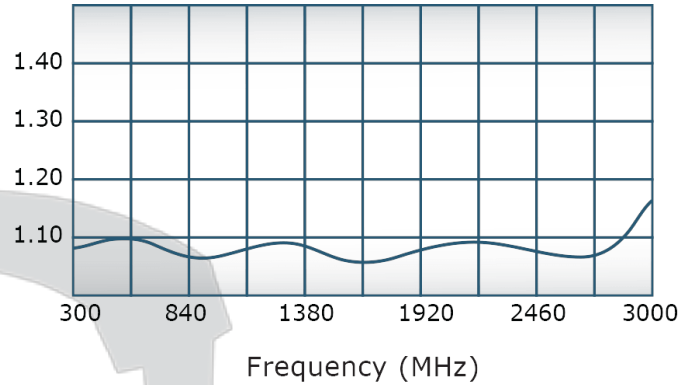
C8671

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

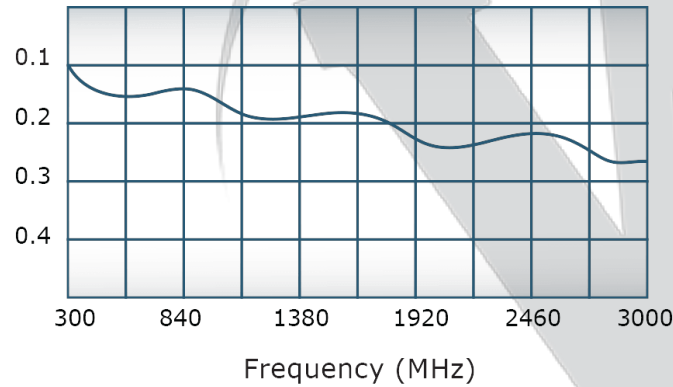
Coupling:



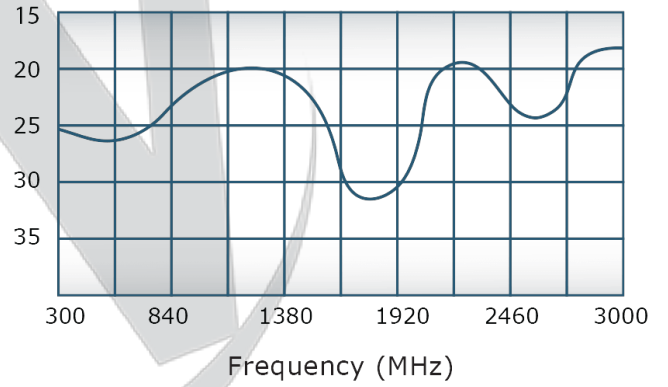
VSWR:



Insertion Loss:



Directivity:



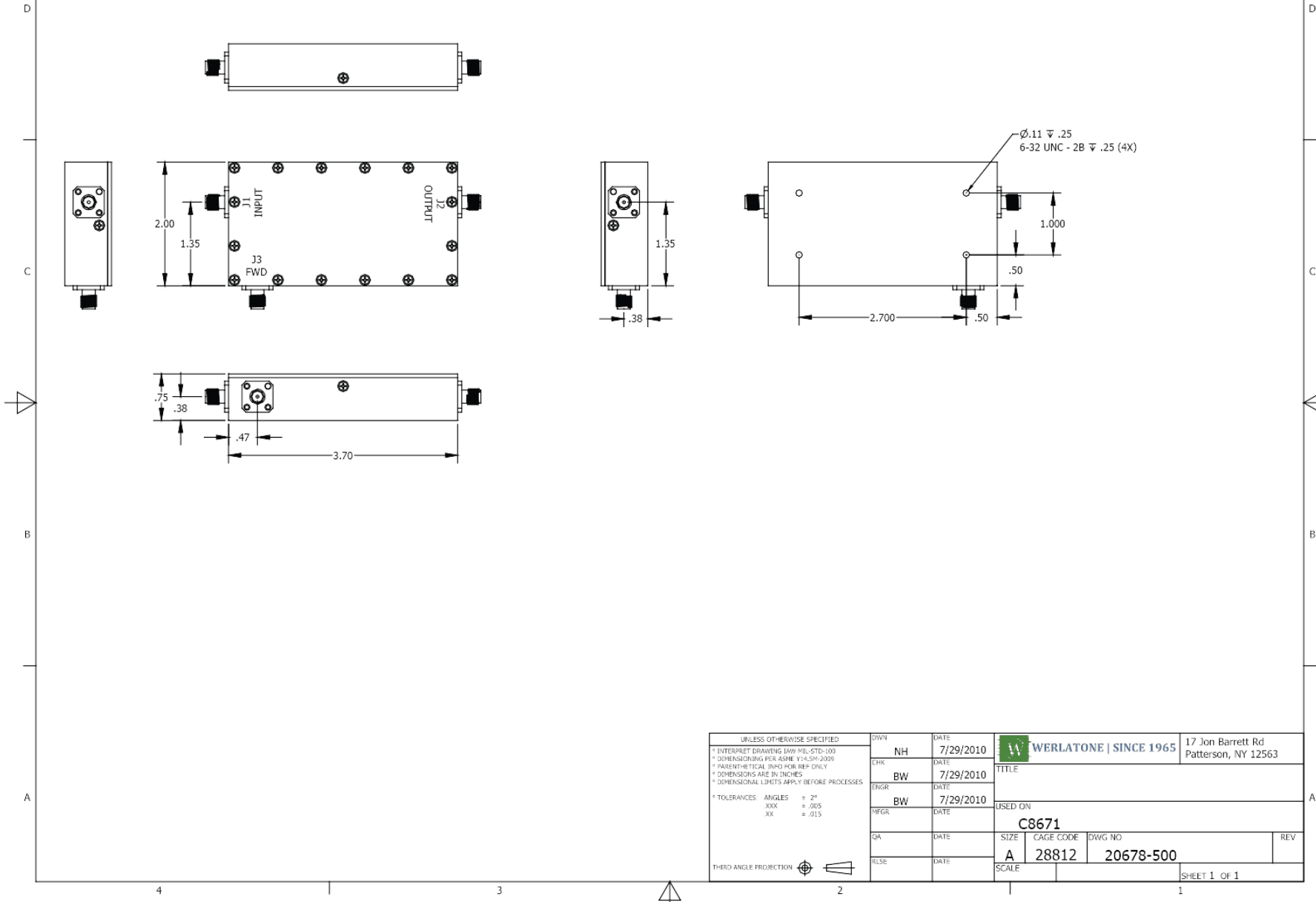
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV



UNLESS OTHERWISE SPECIFIED		DWN	DATE	<b>WERLATONE   SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12563	
* INTERPRET DRAWING (AW MIL-STD-100) * DIMENSIONING PER ASME Y14.5M-2009 * PARENTHETICAL DIMS FOR REF ONLY * DIMENSIONS ARE IN INCHES * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * TOLERANCES ANGLES = 2° XXX = .005 .XX = .015		NH	7/29/2010		TITLE	
THIRD ANGLE PROJECTION		CHK	DATE	USED ON		
		BW	7/29/2010	C8671		
		ENGR	DATE	SIZE	CAGE CODE	DWG NO
		BW	7/29/2010	A	28812	20678-500
		MFR	DATE	SCALE	SHEET 1 OF 1	
		QA	DATE	REV		
		RLSE	DATE			

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