

## PRODUCT DATA SHEET

C9271W

**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: 100 - 1000 MHz  
Power: 100 W CW  
Coupling:  $10 \pm 1.0$  dB Max.  
Insertion Loss: 0.5 dB Max.  
Flatness:  $\pm 1.0$  dB Max.  
VSWR (ML): 1.20:1 Max.  
Directivity: 17 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: Watertight, 100% Condensing  
Size: 7.05 x 3.03 x 1.2"  
Weight: 2 lbs.

### Connector Configurations:

| Model      | Input (J1) | Output (J2) | Fwd (J3) |
|------------|------------|-------------|----------|
| C9271W-10  | N Female   | N Female    | N Female |
| C9271W-12  | N Female   | N Female    | SMA      |
| C9271W-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.

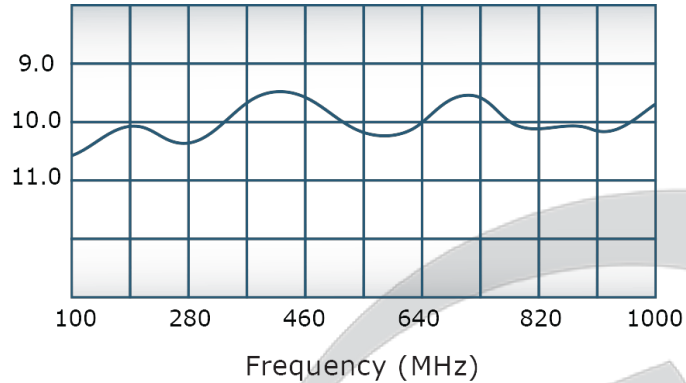


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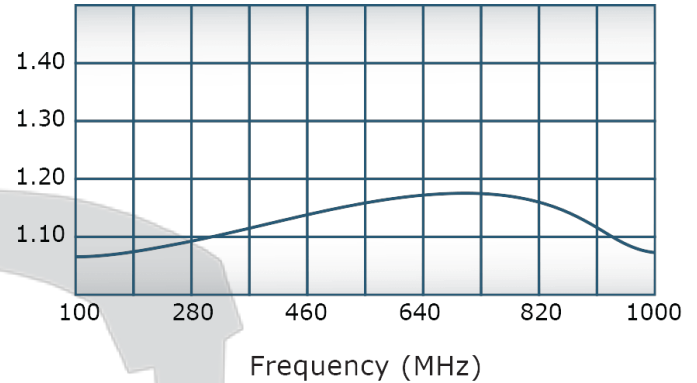
C9271W

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

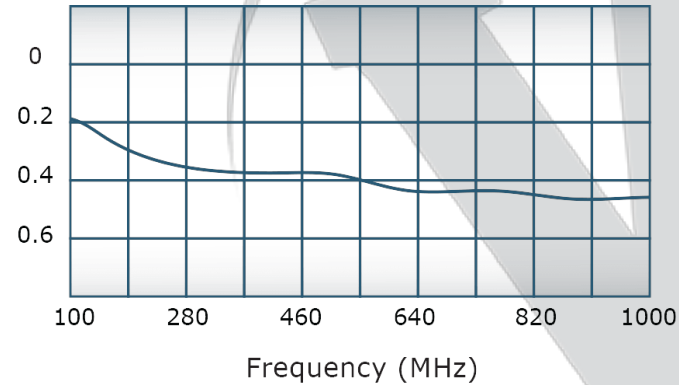
Coupling:



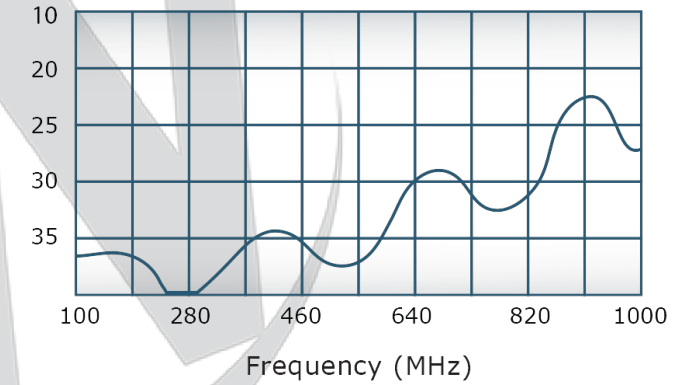
VSWR:



Insertion Loss:



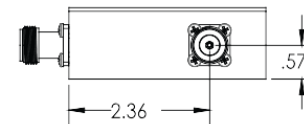
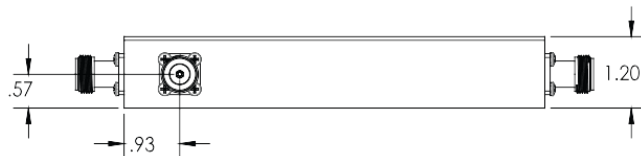
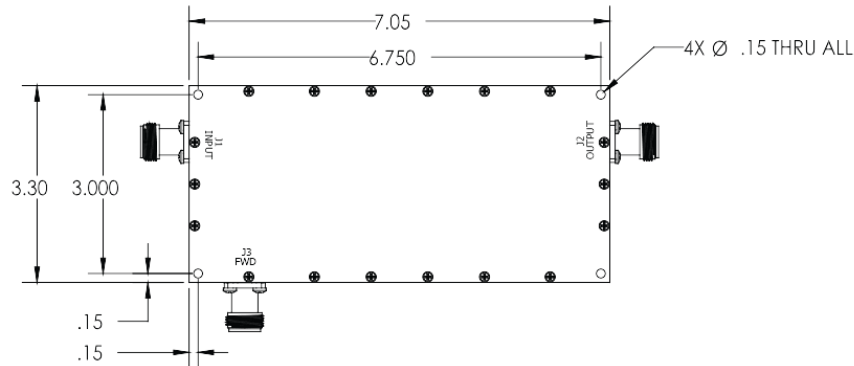
Directivity:




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| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | REVISION RECORD | DATE     | APPROVED |
| A         | ECN: 5677       | 6/7/2012 | SC       |

|             |  |  |  |                        |          |  |  |           |              |
|-------------|--|--|--|------------------------|----------|--|--|-----------|--------------|
|             |  | UNLESS OTHERWISE SPECIFIED   |  | DWN                    | DATE     |  WERLATONE SINCE 1965 | 17 Jon Barrett Rd<br>Patterson, NY 12563 |           |              |
|             |  | <ul style="list-style-type: none"><li>• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-883C</li><li>• CONFORM TO ASME Y14.5M-2009</li><li>• PARENTHETICAL INFO FOR REF ONLY</li><li>• DIMENSIONS ARE IN INCHES</li><li>• DIMENSIONAL LIMITS APPLY BEFORE FINISHES</li><li>• TOLERANCES:<ul style="list-style-type: none"><li>ANGLES ± .2°</li><li>3 PL ± .005</li><li>2 PL ± .015</li></ul></li><li>• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</li><li>• CONCENTRICITY MACHINED DIA. .005 FDM</li><li>• MACHINE TOOL PREPARATION .005 FDM</li></ul> |  | SC                     | 6/7/2012 |  |  |           |              |
|             |  |  |  | CHK                    | DATE     | TITLE  |  |           |              |
|             |  |  |  | ENGR                   | 6/7/2012 |  |  |           |              |
|             |  |  |  | BW                     | 6/7/2012 |  |  |           |              |
|             |  |  |  | APPGR                  | DATE     | C9271W-10B   | REV                                      |           |              |
|             |  |  |  | QA                     | DATE     |  |  |           |              |
|             |  |  |  | RESE                   | DATE     | SIZE   | CAGE CODE                                | DWG NO    | A            |
|             |  |  |  |                        |          | B  | 28812                                    | 20865-500 |              |
|             |  |  |  |                        |          | SCALE  | 1:2                                      |           | SHEET 1 OF 1 |
|             |  |  |  |                        |          |  |  |           |              |
| NEXT ASSY   |  | USED ON  |  |                        |          |  |  |           |              |
| APPLICATION |  |  |  | THIRD ANGLE PROJECTION |          |  |  |           |              |

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