

## PRODUCT DATA SHEET

C7929

**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 - 200 MHz  
Power: 200 W CW  
Coupling: 10 ± 1.0 dB Max.  
Insertion Loss: 0.3 dB Max.  
Flatness: ± 1.0 dB Max.  
VSWR (ML): 1.25:1 Max.  
Directivity: 20 dB Min.

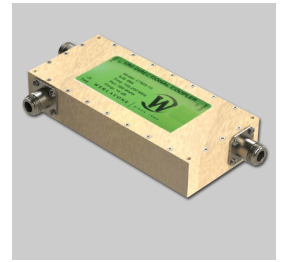
### Mechanical Specifications:

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: 6.4 x 3.0 x 1.2"  
Weight: 1 lb. 2 ounces

### Connector Configurations:

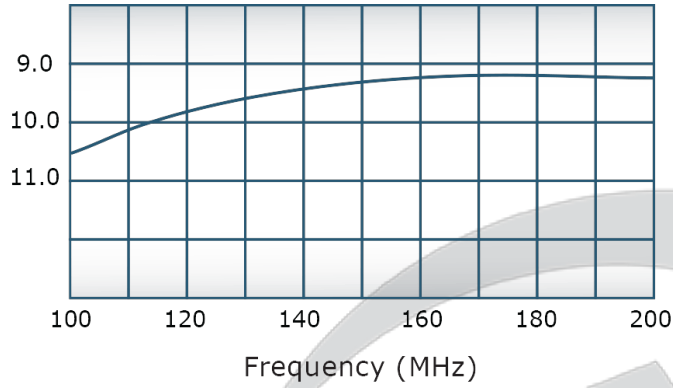
| Model     | Input (J1) | Output (J2) | Fwd (J3) |
|-----------|------------|-------------|----------|
| C7929-10  | N Female   | N Female    | N Female |
| C7929-12  | N Female   | N Female    | SMA      |
| C7929-102 | SMA        | SMA         | SMA      |

**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.

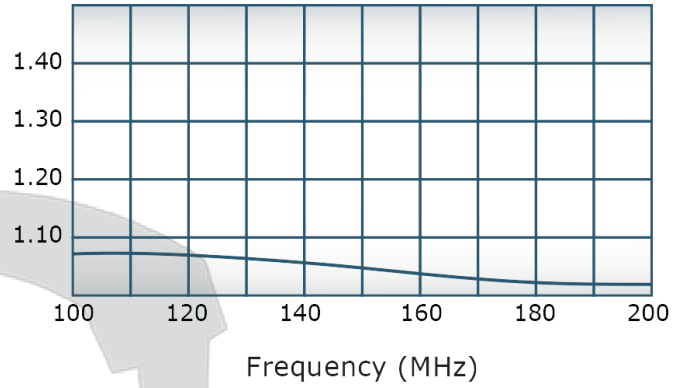


## Performance Data (Specifications subject to change without notice):

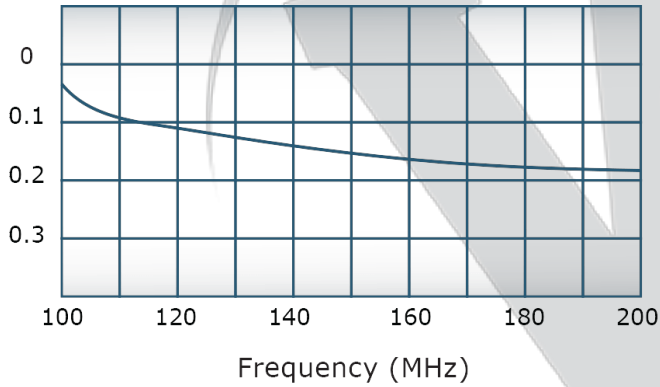
Coupling:



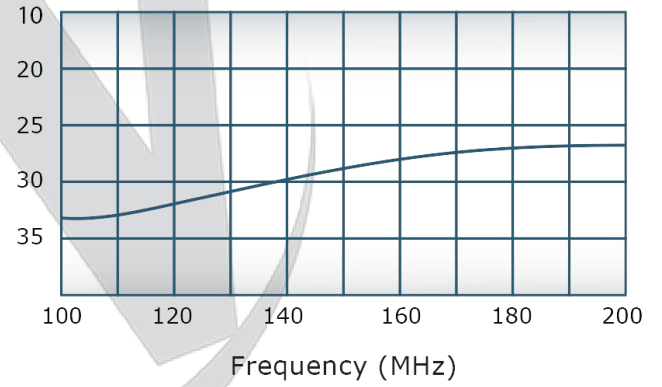
VSWR:



Insertion Loss:

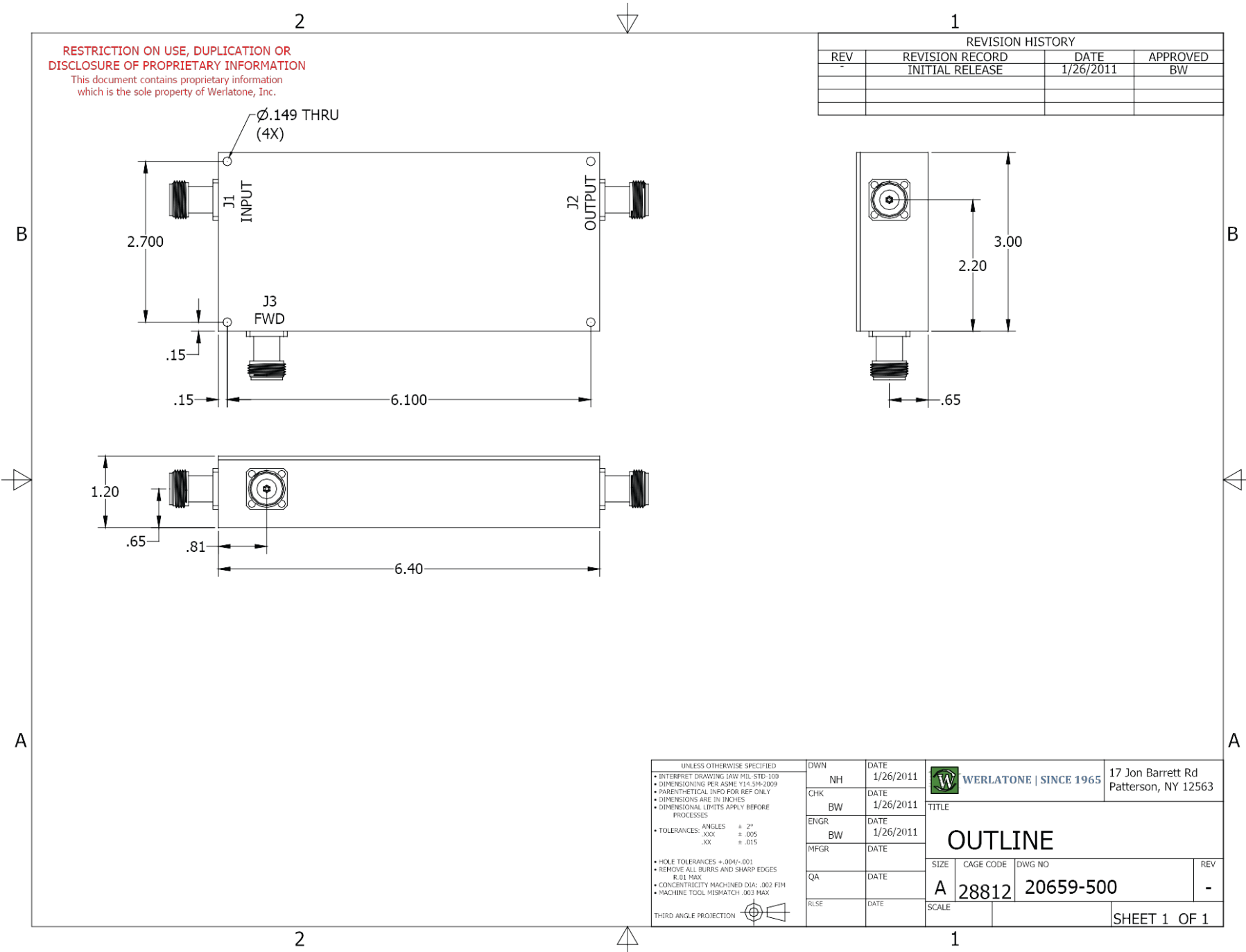


Directivity:



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| REVISION HISTORY |                 |           |          |
|------------------|-----------------|-----------|----------|
| REV              | REVISION RECORD | DATE      | APPROVED |
|                  | INITIAL RELEASE | 1/26/2011 | BW       |
|                  |                 |           |          |
|                  |                 |           |          |



UNLESS OTHERWISE SPECIFIED  
 • INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100  
 • DIMENSIONING PER ASME Y14.5M-2009  
 • PARENTHETICAL INFO FOR REF ONLY  
 • DIMENSIONS ARE IN INCHES  
 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES  
 • TOLERANCES: ANGLES ± 2°  
 .XXX ± .005  
 .XX ± .015  
 • HOLE TOLERANCES +.004/- .001  
 • REMOVE ALL BURRS AND SHARP EDGES  
 R.01 MAX.  
 • CONCENTRICITY MACHINED DIA: .002 FIM  
 • MACHINE TOOL MISMATCH .003 MAX

|      |      |           |
|------|------|-----------|
| DWN  | DATE | 1/26/2011 |
| NH   | DATE | 1/26/2011 |
| CHK  | DATE | 1/26/2011 |
| BW   | DATE | 1/26/2011 |
| ENGR | DATE | 1/26/2011 |
| BW   | DATE | 1/26/2011 |
| MFGR | DATE |           |
| QA   | DATE |           |
| RLSE | DATE |           |

|                               |           |  |              |
|-------------------------------|-----------|--|--------------|
| <b>WERLATONE   SINCE 1965</b> |           | 17 Jon Barrett Rd<br>Patterson, NY 12563 |              |
| TITLE                         |           |  |              |
| <b>OUTLINE</b>                |           |  |              |
| SIZE                          | CAGE CODE | DWG NO                                   | REV          |
| A                             | 28812     | 20659-500                                | -            |
| SCALE                         |           |  | SHEET 1 OF 1 |

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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