
PRODUCT DATA SHEET
C7925

4-Port Bi-Directional Coupler: Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 500 - 2000 MHz
 Power: 200 W CW
 Coupling: 10 ± 1.0 dB Max.
 Insertion Loss: 0.35 dB Max.
 Flatness: ± 1.2 dB Max.
 VSWR (ML): 1.25:1 Max.
 Directivity: 18 dB Min.

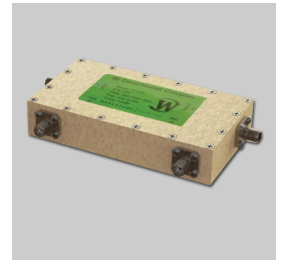
Mechanical Specifications:

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: 8 ounces

Connector Configurations:

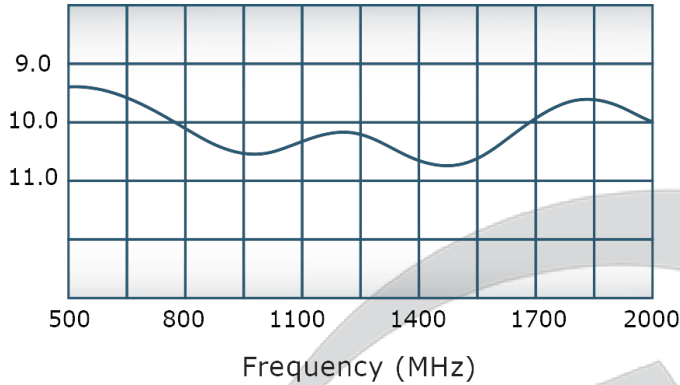
| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|-----------|------------|-------------|----------|----------|
| C7925-10 | N Female | N Female | N Female | N Female |
| C7925-12 | N Female | N Female | SMA | SMA |
| C7925-102 | SMA | SMA | SMA | SMA |

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.

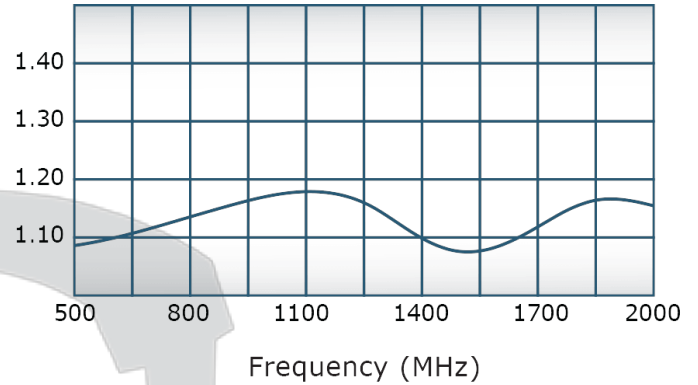


Performance Data (Specifications subject to change without notice):

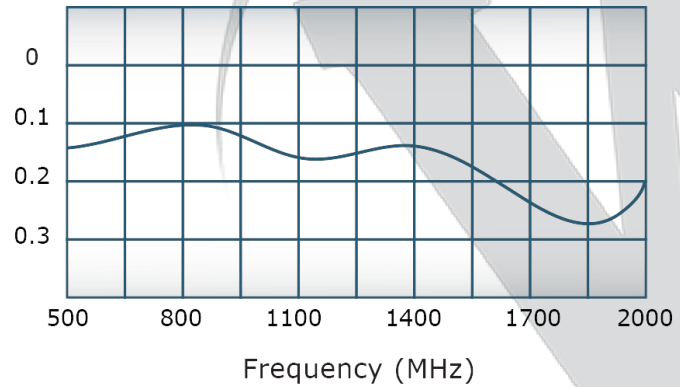
Coupling:



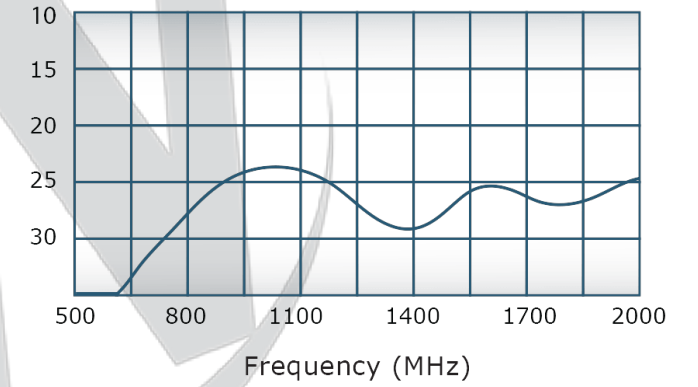
VSWR:



Insertion Loss:

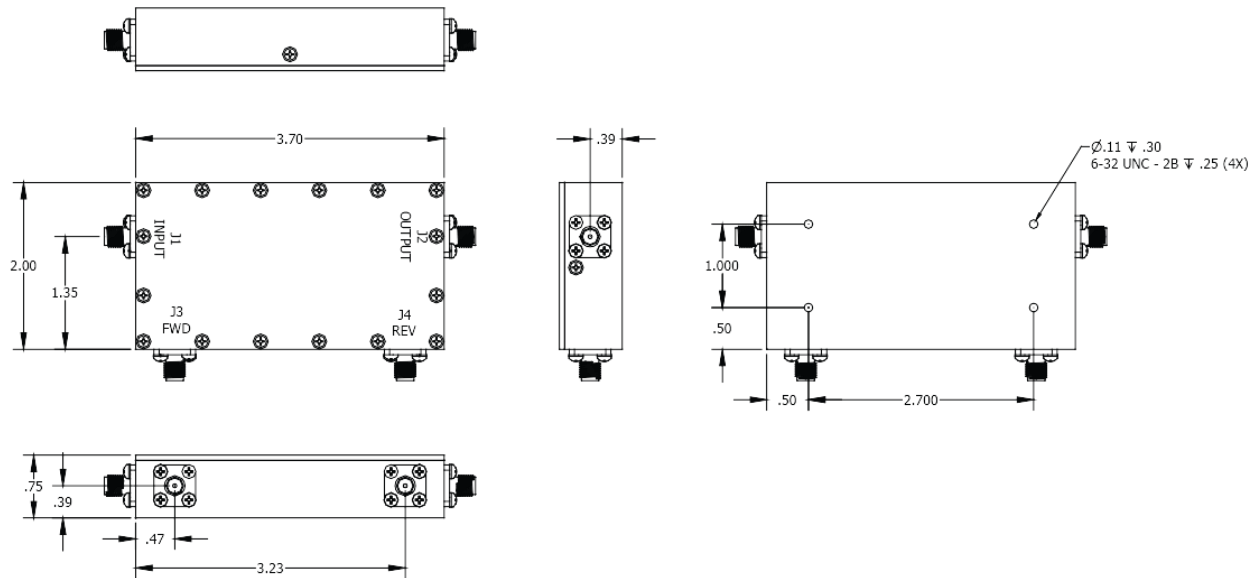


Directivity:



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| REVISION HISTORY | | | | | |
|------------------|-----|-----------------|------|-----|------|
| DATE | REV | REVISION RECORD | AUTH | CHK | APPV |
| | | | | | |
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|--|--|------|----------|--|
| UNLESS OTHERWISE SPECIFIED | | OWN | DATE | WERLATONE SINCE 1965 2095 Route 22 Brewster, NY 10509 |
| * INTERPRET DRAWING IAW 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 | | NH | 4/1/2010 | |
| THIRD ANGLE PROJECTION | | CHK | DATE | OUTLINE USED ON |
| | | BW | 4/1/2010 | |
| | | ENGR | DATE | SIZE CAGE CODE DWG NO A 28812 20611-500 |
| | | BW | 4/1/2010 | |
| | | APPR | DATE | SCALE SHEET 1 OF 1 |
| | | QA | DATE | |
| | | PLSE | DATE | |

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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