
PRODUCT DATA SHEET
C7962

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: 450 - 2500 MHz
 Power: 100 W CW
 Coupling: 30 ± 1.0 dB Max.
 Insertion Loss: 0.2 dB Max.
 Flatness: ± 1.0 dB Max.
 VSWR (ML): 1.20:1 Max.
 Directivity: 17 dB Min.

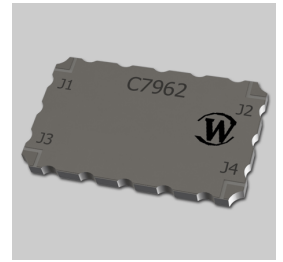
Mechanical Specifications:

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: 95% Non-Condensing
 Size: 1.15 x 0.7 x 0.07"

Connector Configurations:

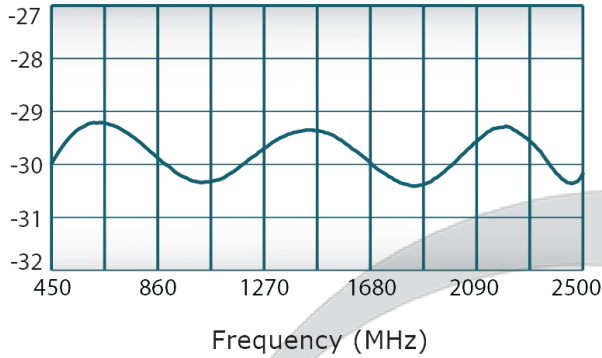
| Model | J1 | J2 | J3 | J4 |
|-------|-------|--------|---------|---------|
| C7962 | Input | Output | Forward | Reverse |

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.

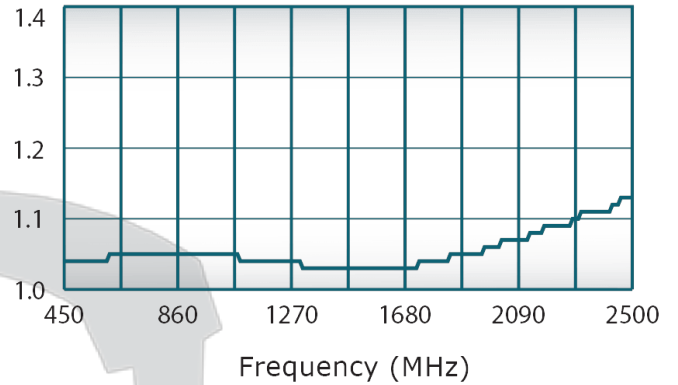


Performance Data (Specifications subject to change without notice):

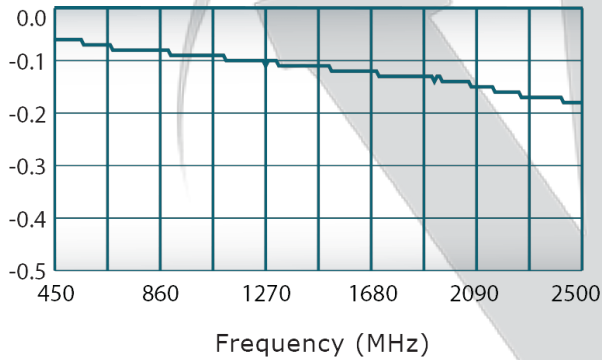
Coupling:



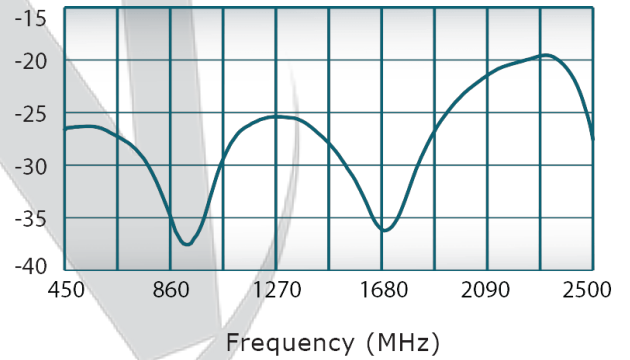
VSWR:



Insertion Loss:



Directivity:

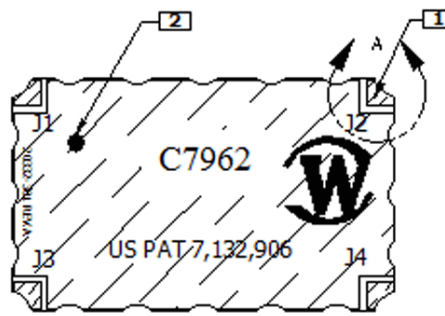


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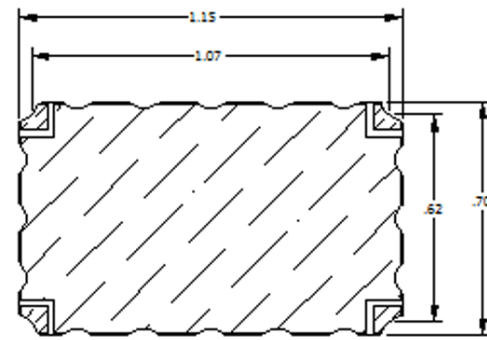
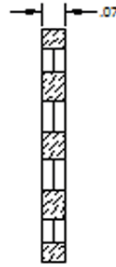
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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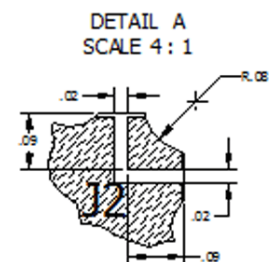
| REVISION HISTORY | | | | | |
|------------------|-----|---------|------------|-----|-----|
| REV | REV | REASON | DATE | CHK | APP |
| 1 | 1 | REVISED | 11/18/2005 | NH | PA |
| 2 | 2 | REVISED | 11/18/2005 | NH | PA |



FRONT (NEAR SIDE)
SCALE 2 : 1



BACK (FAR SIDE)
SCALE 2 : 1



DETAIL A
SCALE 4 : 1

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 PORTS (4X) ARE Ø16 PLATED CASTELLATION (4X)
- 2 Ø05 PRINTED FIDUCIAL FOR ORIENTATION
- 3. HATCHED AREAS DENOTE METALLIZATION
- 4. SMT COMPONENT. REFER TO TECH NOTE FOR MOUNTING RECOMMENDATIONS.
- 5. SURFACE FINISH OPTIONS:
 C7962-Pb: Electrodeposited Tin/Lead
 C7962-Sn: Immersion Tin
 C7962-Ag: Immersion Silver
 C7962-Au: ENIG

PORT LEGEND:

- J1 : INPUT
- J2 : OUTPUT
- J3 : FWD
- J4 : REV

| | | | |
|---|--|--|---|
| 1. PRODUCT NAME 2. PART NUMBER 3. REV 4. DATE 5. BY 6. CHECKED 7. APPROVED 8. DATE | | NH 05/02/2007 GP 11/18/2005 BW 11/18/2005 | WERLATONE SINCE 1965 2000 Route 22 Paterson, NJ 07659 |
| 9. SCALE 10. CASE CODE 11. MFG NO 12. DATE | | A 28812 20332-500 | RET B |
| SHEET 1 OF 1 | | | |

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