
**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.

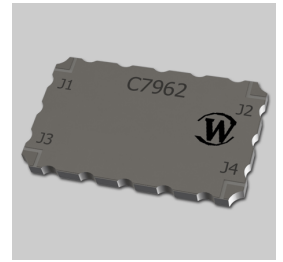
**Mechanical Specifications:**

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:**

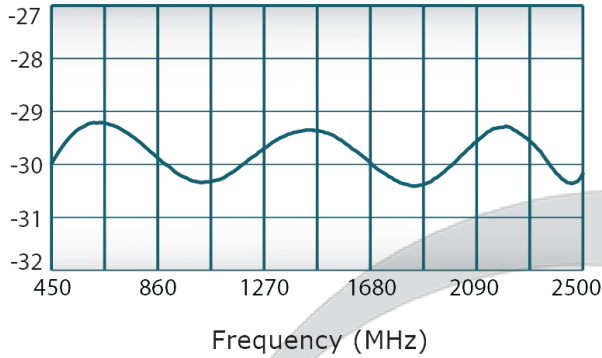
Model	J1	J2	J3	J4
C7962	Input	Output	Forward	Reverse

**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.

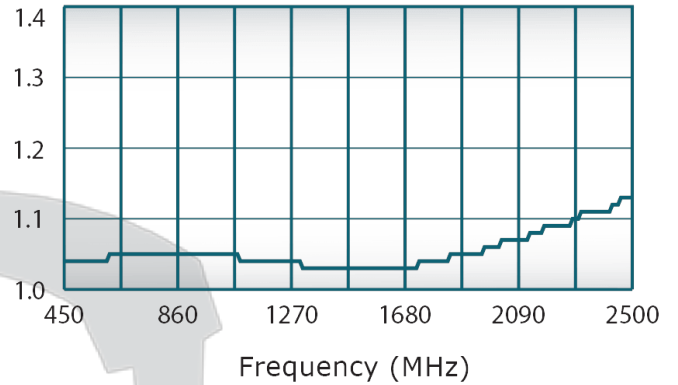


## Performance Data (Specifications subject to change without notice):

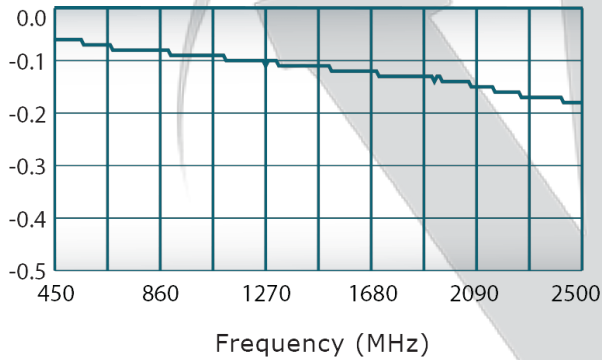
Coupling:



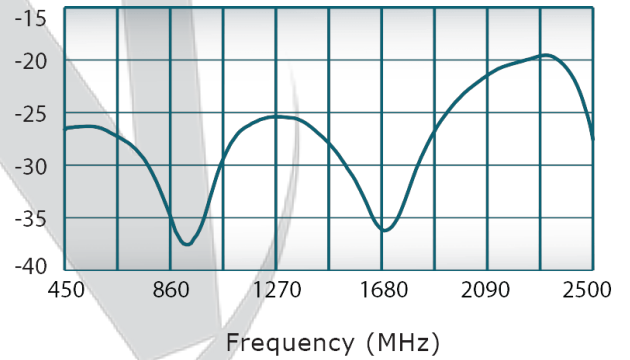
VSWR:



Insertion Loss:



Directivity:

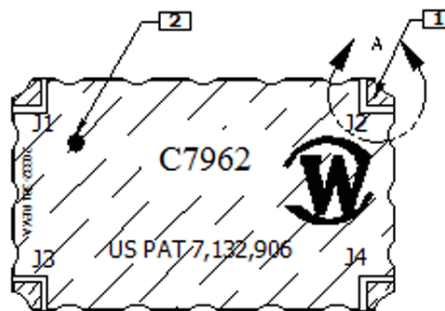


**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of Werlatone, Inc.

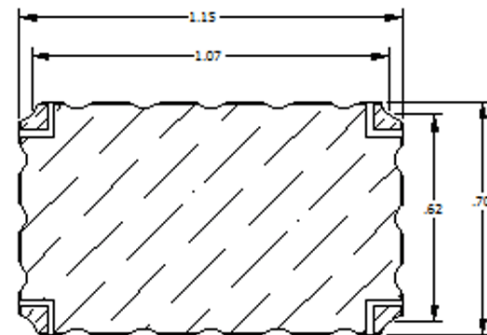
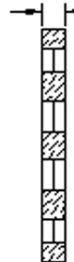
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION  
This document contains proprietary information which is the sole property of Werlatone, Inc.

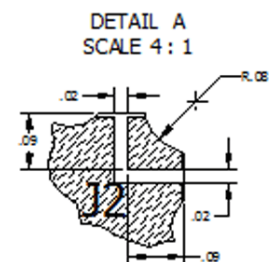
REVISION HISTORY					
REV	REV	REASON	DATE	CHK	APP
1	1	REVISED	11/18/2005	NH	GP
2	2	REVISED	11/18/2005	NH	GP



FRONT (NEAR SIDE)  
SCALE 2 : 1



BACK (FAR SIDE)  
SCALE 2 : 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. IDENTIFICATION MARKS 2. DIMENSIONS IN MILLIMETERS 3. DIMENSIONS IN INCHES 4. DIMENSIONS IN DECIMALS OF AN INCH 5. DIMENSIONS IN FRACTIONS OF AN INCH 6. DIMENSIONS IN MILLIMETERS 7. DIMENSIONS IN INCHES 8. DIMENSIONS IN DECIMALS OF AN INCH 9. DIMENSIONS IN FRACTIONS OF AN INCH		NH 05/02/2007 GP 11/18/2005 BW 11/18/2005	WERLATONE SINCE 1965 2000 Route 22 Patterson, NY 12563 C7962
A 28812 20332-500	REV B	SHEET 1 OF 1	

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.  
 Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com