
**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:  $30 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 1.0$  dB Max.  
VSWR (ML): 1.20:1 Max.  
Directivity: 17 dB Min.

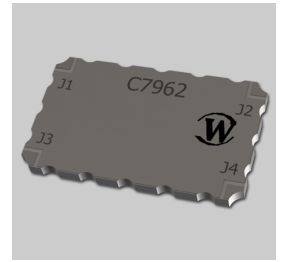
**Mechanical Specifications:**

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: 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.

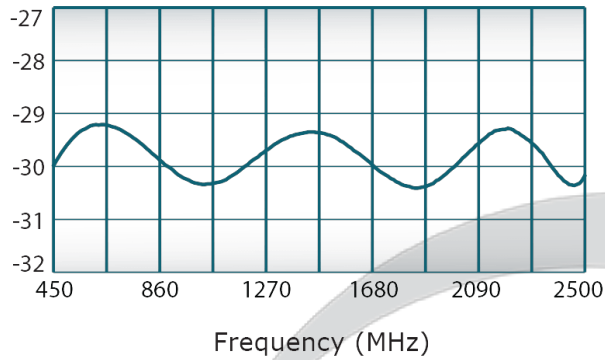


## PRODUCT DATA SHEET

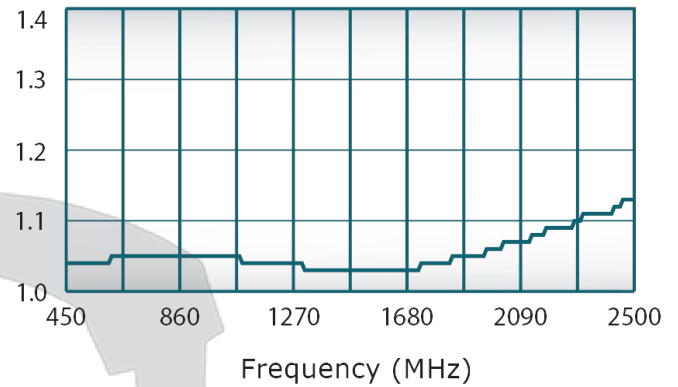
C7962

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

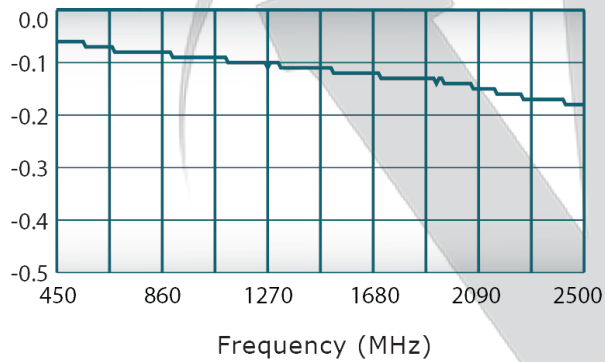
Coupling:



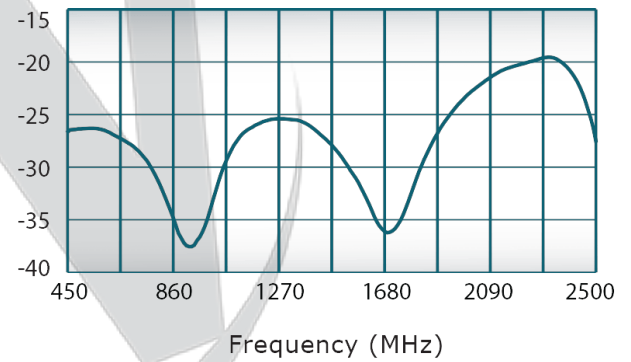
VSWR:



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

Technical drawing of a rectangular plate. The main drawing shows a rectangle with a width of 1.15 and a height of 1.07. The corners are rounded with a radius of 0.62. A detail view of the corner is shown to the right, indicating a fillet radius of 0.62.

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

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

3F550N HISTORY					
DATE	BY	REVISIONS	CHK	CHK	APP
3/1/2005	Y	1ST F 2.6	NI	JA	BN
3/6/2006	K	REV 2.005	NI	JA	BN

[illegible]

C7962 Rev.-