


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.

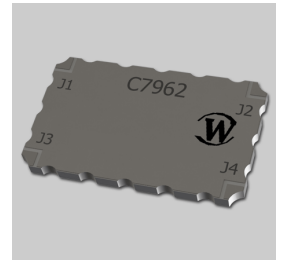
Mechanical Specifications:

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.

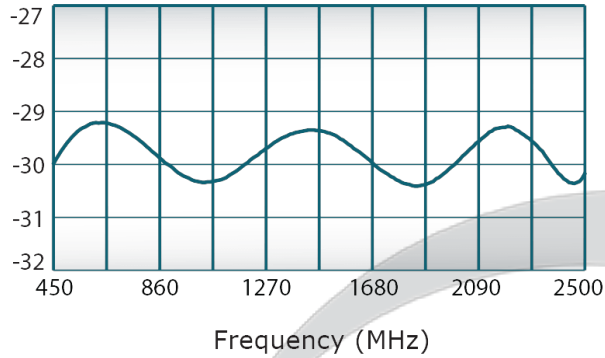


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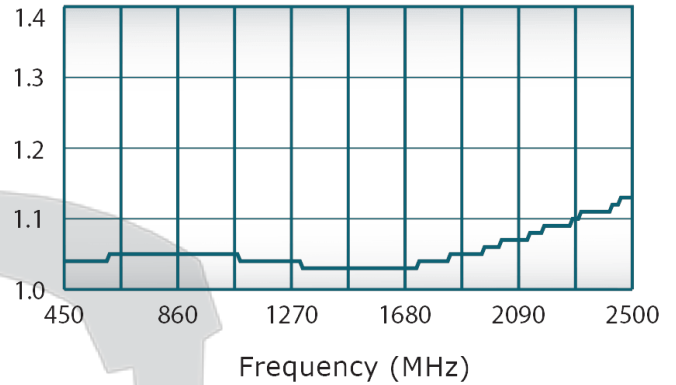
C7962

Performance Data (Specifications subject to change without notice):

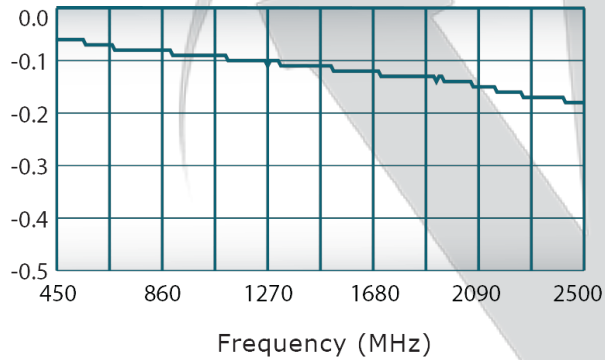
Coupling:



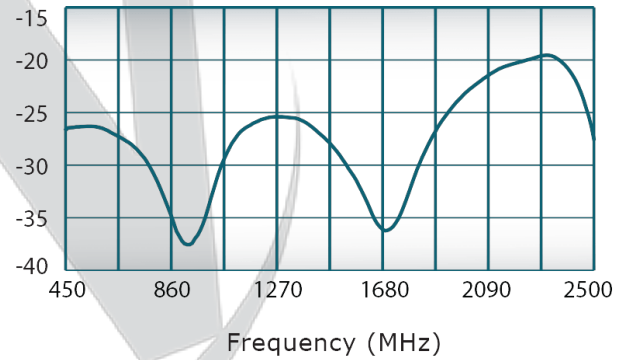
VSWR:



Insertion Loss:



Directivity:

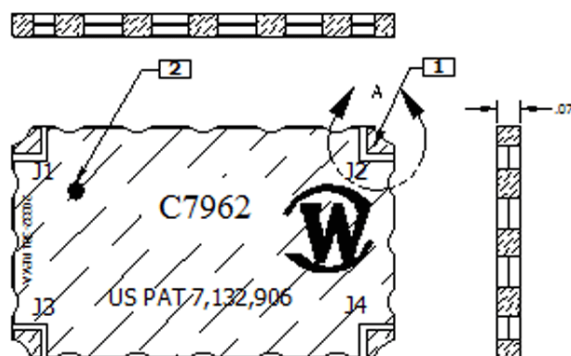


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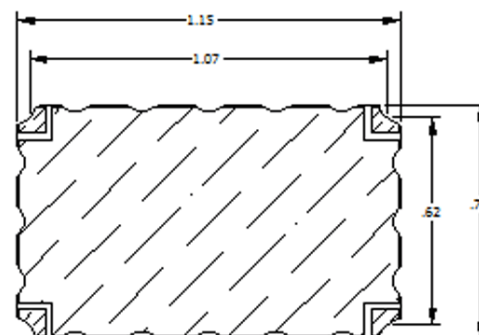
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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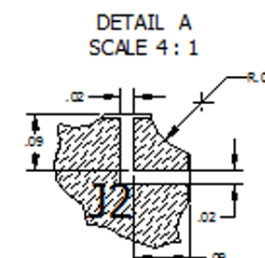
REVISION HISTORY					
REV	REV	REVISION / REASON	DATE	CHK	APP
01	1	LOH # 22 E	NH	JA	BN
02	2	REV # 30'S	NH	BN	BN



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

REVISION HISTORY REV 01 05/02/2007 NH REV 02 11/18/2008 GP REV 03 11/18/2008 BW		DATE 05/02/2007 DATE 11/18/2008 DATE 11/18/2008		WRLATONE SINCE 1965 2000-2008 22 File No. 111 C509	
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