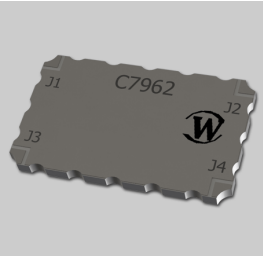
WERLATONE

Model C7962
Directional Couplers Non-Connectorized



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.

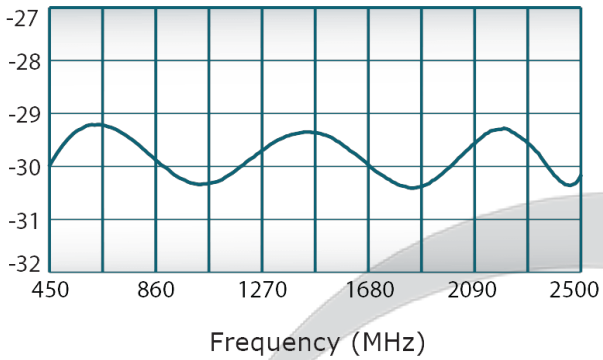
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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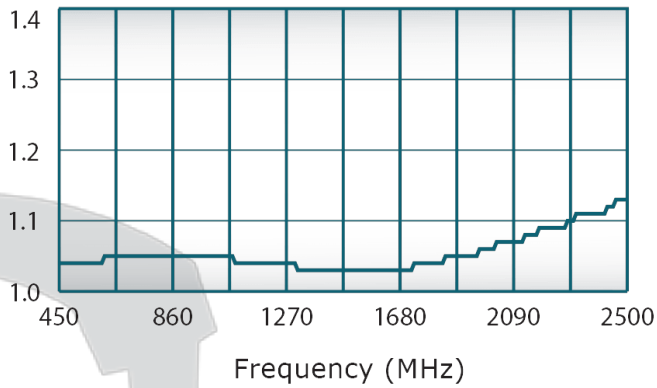


Performance Data (Specifications subject to change without notice):

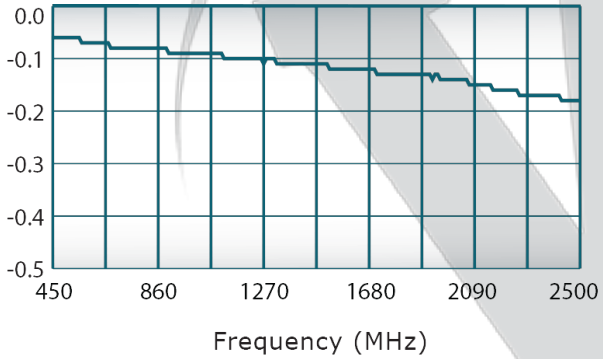
Coupling:



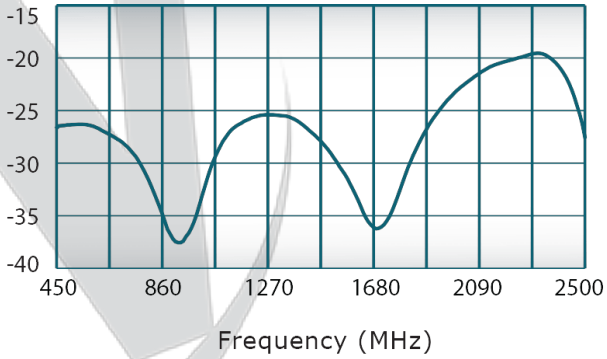
VSWR:



Insertion Loss:



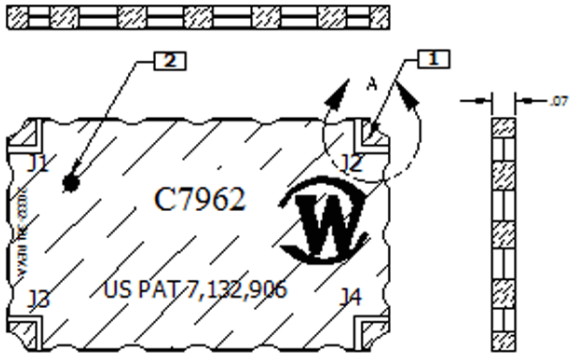
Directivity:



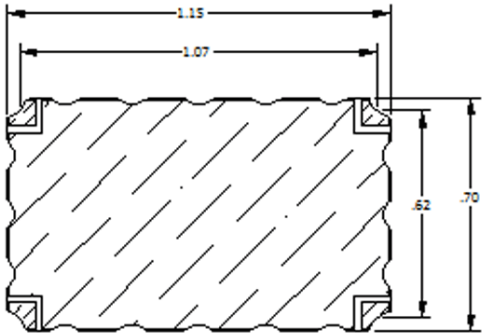
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REVISION HISTORY					
ECN	REV	REVISED PER ECO F3	APP	CHK	DRN
[illegible]	A	[illegible]	NH	JW	BW
[illegible]	B	ECN # 3075	NH	BW	BW

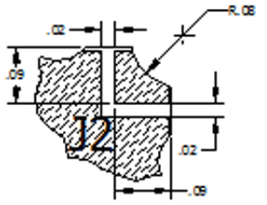


FRONT (NEAR SIDE)
SCALE 2 : 1



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

NH	05/02/2007	
GP	11/18/2008	
BW	11/18/2008	

WERLATONE SINCE 1965

Size	Code Ident	Dwg No	Rev
A	28812	20332-500	B

SHEET 1 OF 1

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