
**PRODUCT DATA SHEET**
**C7940**

**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:         $20 \pm 1.0$  dB Max.  
 Insertion Loss:    0.3 dB Max.  
 Flatness:         $\pm 0.7$  dB Max.  
 VSWR (ML):      1.25:1 Max.  
 Directivity:      17 dB Min.

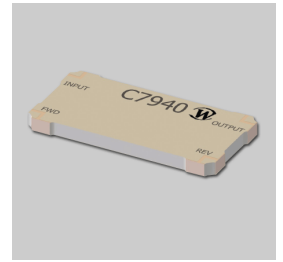
**Mechanical Specifications:**

Type:              Surface Mount  
 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:                1.3 x 0.65 x 0.09"

**Port Configurations:**

<b>Input (J1)</b>	<b>Output (J2)</b>	<b>Fwd (J3)</b>	<b>Rev (J4)</b>
J1	J2	J3	J4

**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.

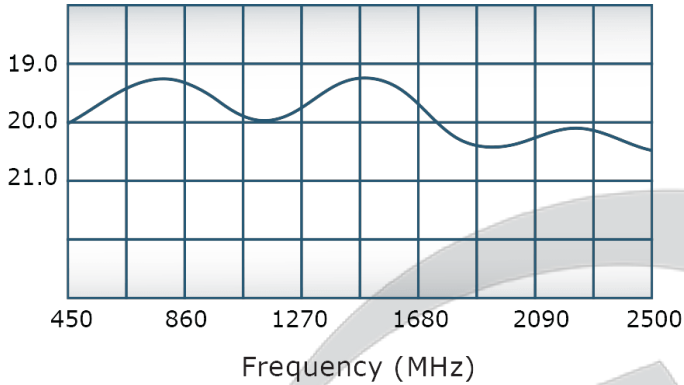


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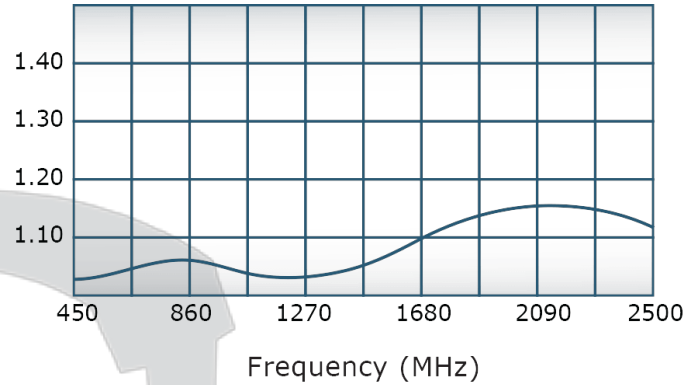
C7940

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

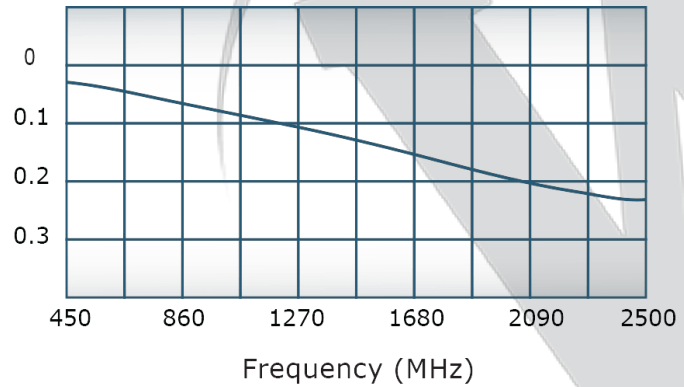
Coupling:



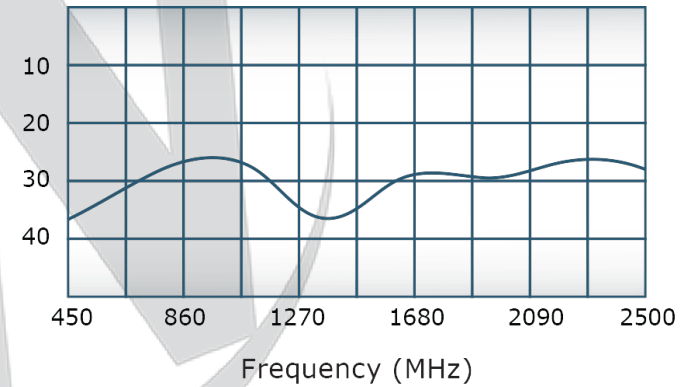
VSWR:



Insertion Loss:



Directivity:



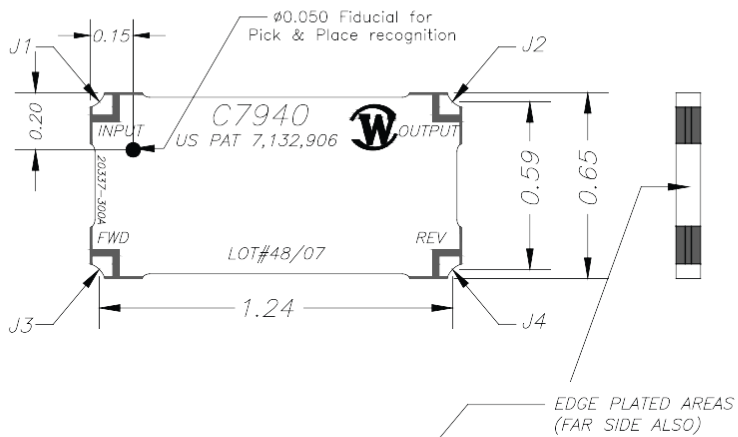
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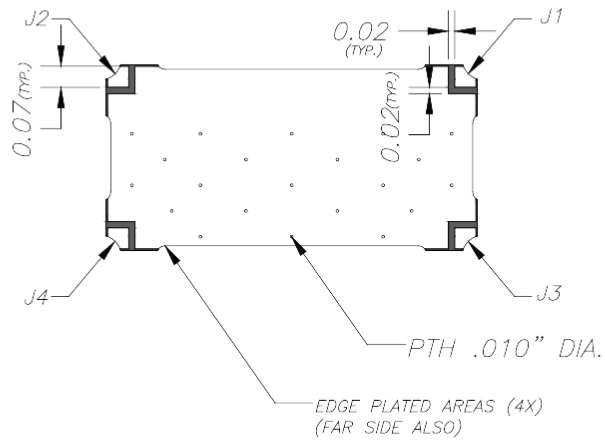
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

DATE	SYM	REVISION RECORD	AUTH	DR	CK

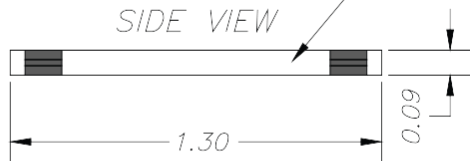
TOP VIEW (NEAR SIDE)



BOTTOM VIEW (FAR SIDE)



SIDE VIEW



FINISH: ELECTROLYTIC TIN

■ NON-METALLIC REGIONS

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TOLERANCE	WERLATONE INC.		
XX +/- .015 XXX +/- .005	USED ON: <b>C7940</b>	SCALE	DRAWN BY : NH
	TITLE : <b>OUTLINE</b>		
	DATE: 09/27/07	DRAWING NO: <b>20337-500</b>	

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