



## PRODUCT DATA SHEET

C8025

**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: 500 - 3500 MHz  
 Power: 125 W CW  
 Coupling:  $30 \pm 1.0$  dB Max.  
 Insertion Loss: 0.3 dB Max.  
 Flatness:  $\pm 0.75$  dB Max.  
 VSWR (ML): 1.25:1 Max.  
 Directivity: 18 dB Min.

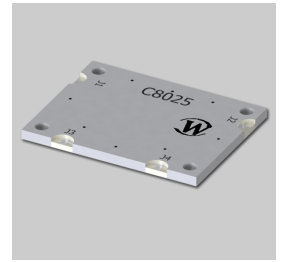
### Mechanical Specifications:

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: 1.3 x 1.0 x 0.07"

### Port 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.

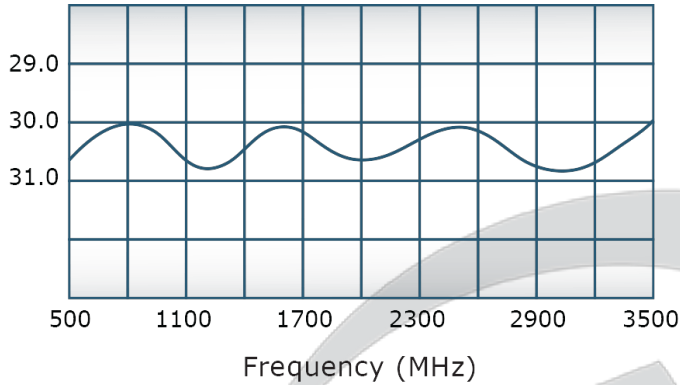


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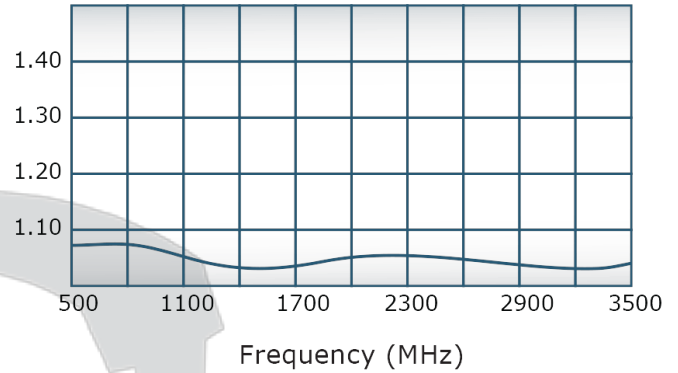
C8025

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

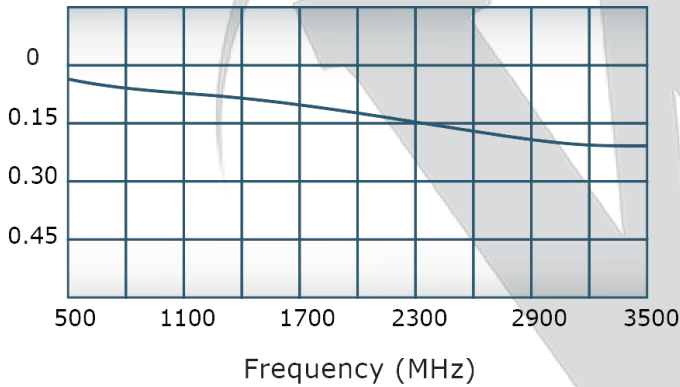
Coupling:



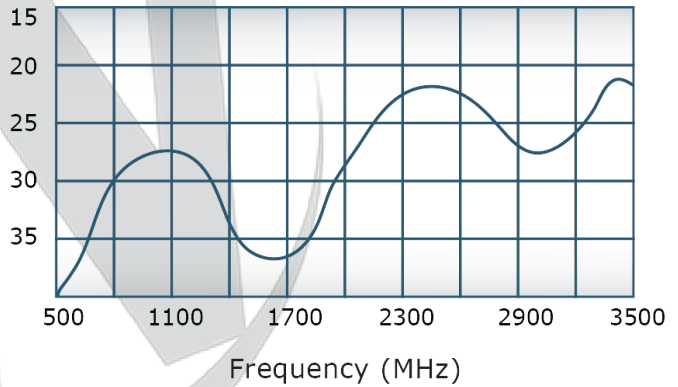
VSWR:



Insertion Loss:



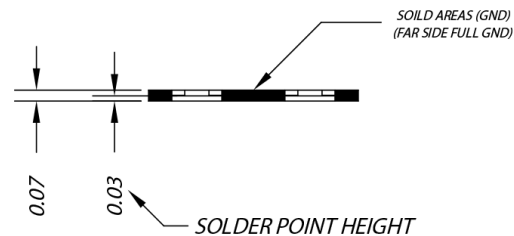
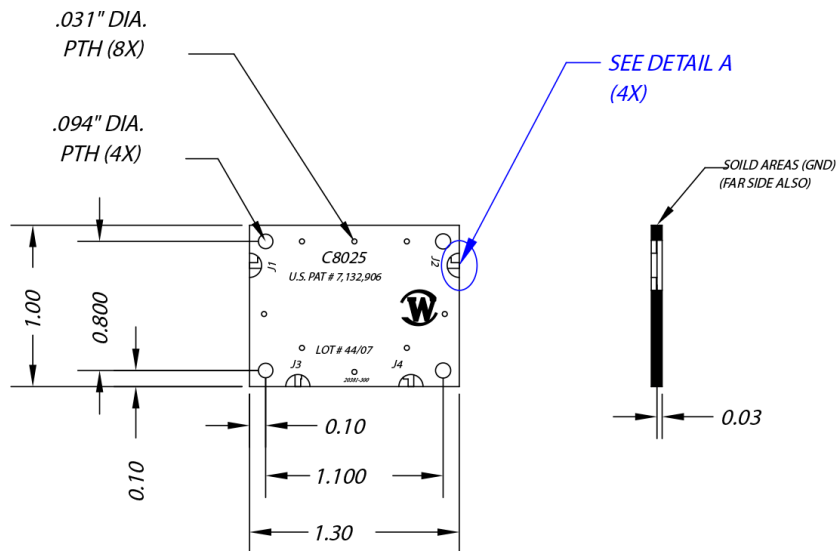
Directivity:



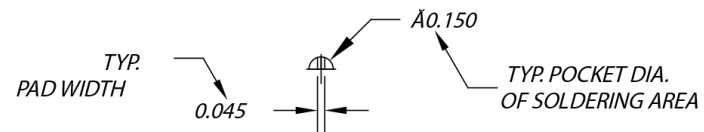
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DATE	SYM	REVISION RECORD	AUTH	DR	CK



### DETAIL A



TOLERANCE	WERLATONE INC.		
XX +/- .015		SCALE	DRAWN BY : NH
XXX +/- .005			APPVD BY: BW
	TITLE : <b>OUTLINE</b>		
	DATE 01/10/08	DRAWING NO: <b>20381 -500</b>	

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