



## PRODUCT DATA SHEET

C8740

**4-Port Dual Directional Coupler** employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

### Features:

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

### Electrical Specifications:

Frequency:	20 - 512 MHz
Power:	200 W CW
Coupling:	40 ± 1.0 dB Max.
Insertion Loss:	0.3 dB Max.
Flatness:	± 0.5 dB Max.
VSWR (ML):	1.15:1 Max.
Directivity:	20 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:	-40°C to +85°C
Storage Temperature:	-60°C to +85°C
Humidity:	95% Non-Condensing
Size:	1.5 x 0.95 x 0.55"

RF Interface: Tab is 0.040 X 0.005" Silver Plated Copper

Ground Tabs (4X) should be soldered to external PCB ground pads

**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.

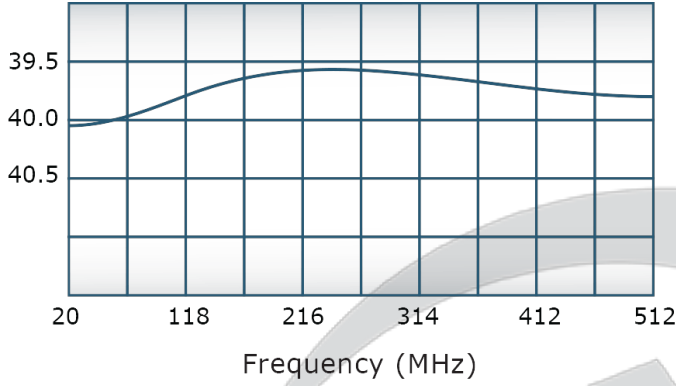
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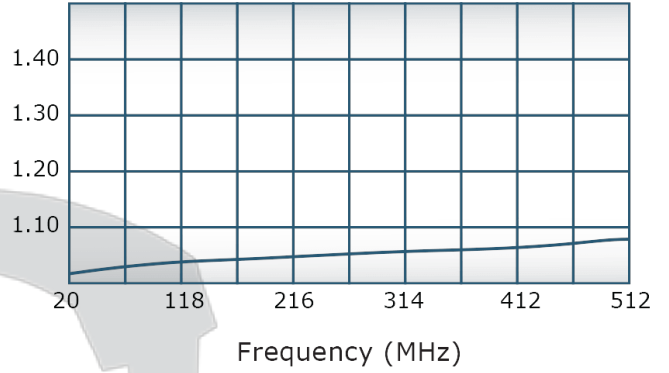


## Performance Data (Specifications subject to change without notice):

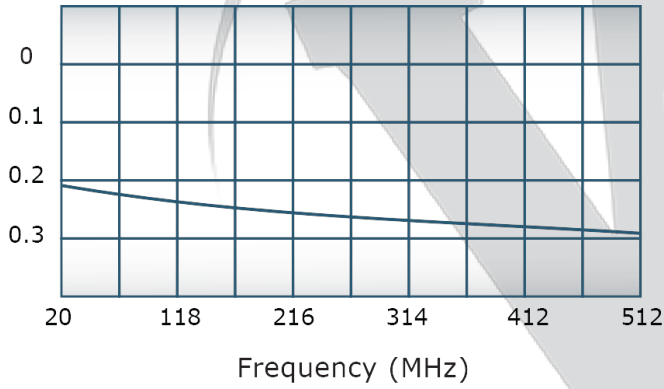
Coupling:



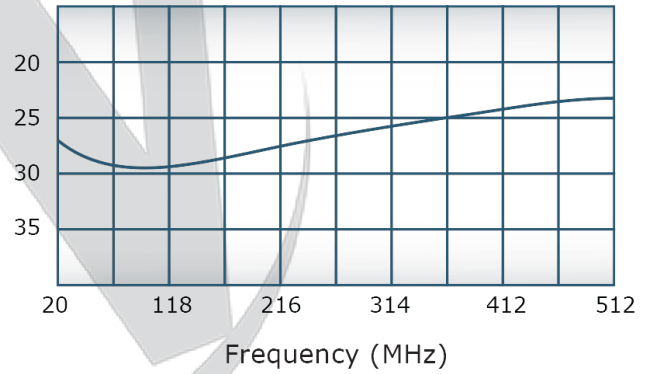
VSWR:



Insertion Loss:



Directivity:

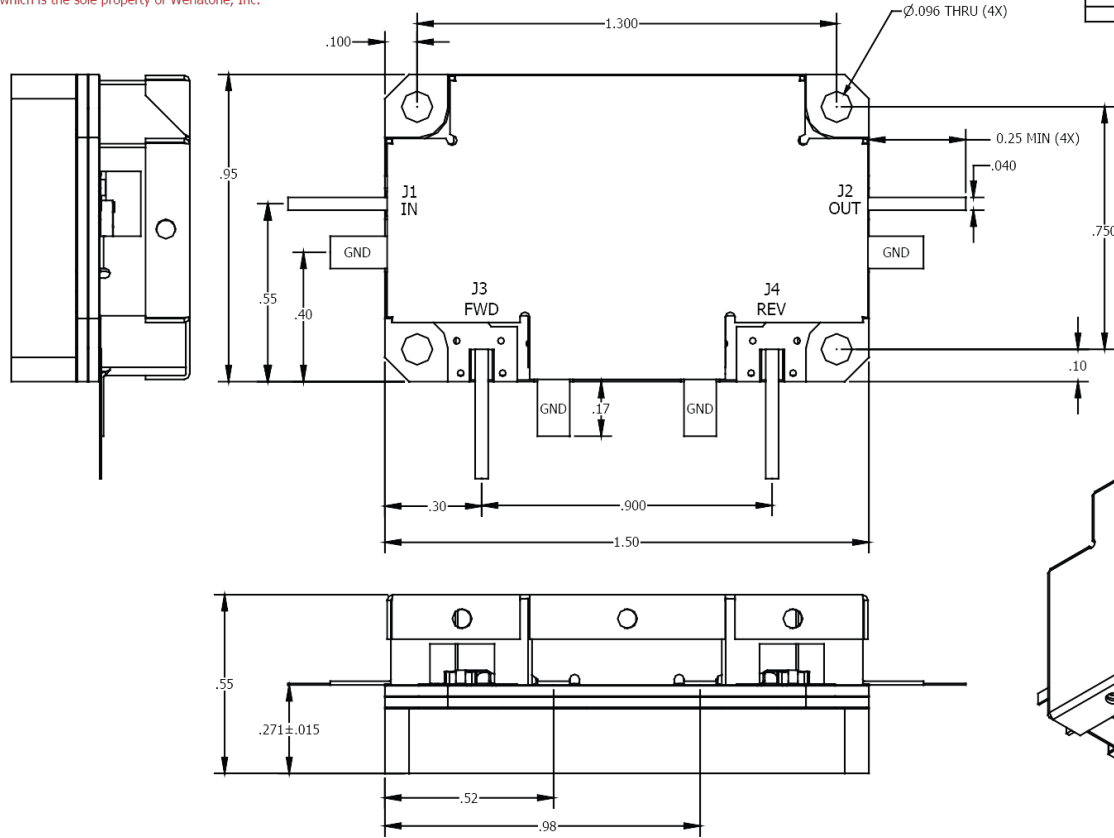


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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
7/29/2010		INITIAL RELEASE	GP	NH	
11/18/2010	A	ECN 5257	GP	NH	



- NOTES UNLESS OTHERWISE SPECIFIED:
1. Heatsink Mat'l: Aluminum 6061-T6
  2. Heatsink Surface Finish: Gold over Nickel
  3. RF Interface: Tab is .040 X .005" Silver Plated Copper
  4. Ground Tabs (4X) should be soldered to external PCB Ground Pads

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE   SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
* INTERPRET DRAWING AS PER MIL-STD-100 * DIMENSIONING PER ASME Y14.5M-2009 * PARENTHETICAL INFO FOR REF ONLY * DIMENSIONS ARE IN INCHES * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * TOLERANCES: ANGLES ± 2° XXX ± .005 XX ± .015 THIRD ANGLE PROJECTION		GP	4/29/2010	TITLE			
		CHK	DATE	USED ON			
		NH	7/29/2010				
		ENGR	DATE				
		BW	7/29/2010				
		MPGR	DATE				
		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		RLSE	DATE	A	28812	20629-500	A
		BW	7/29/2010	SCALE	2:1		SHEET 1 OF 1

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