

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.

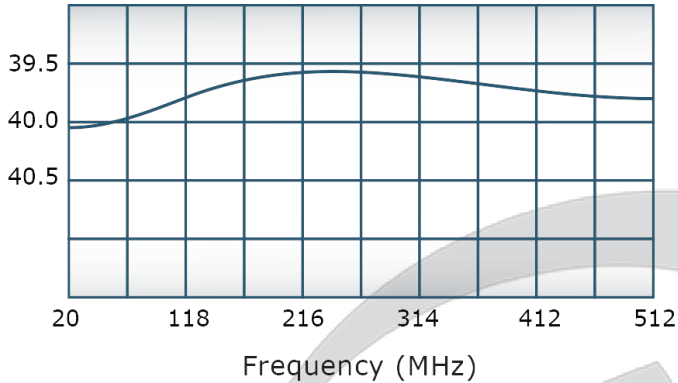


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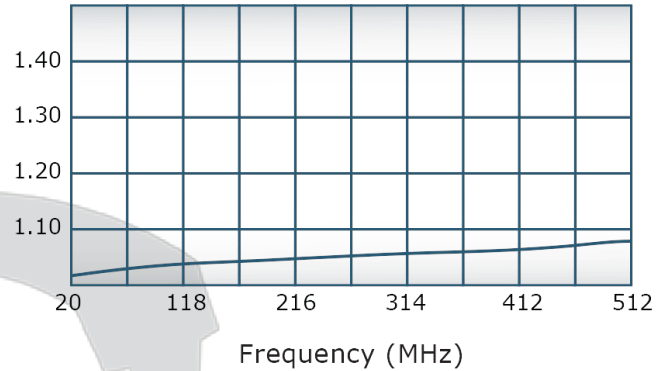
C8740

Performance Data (Specifications subject to change without notice):

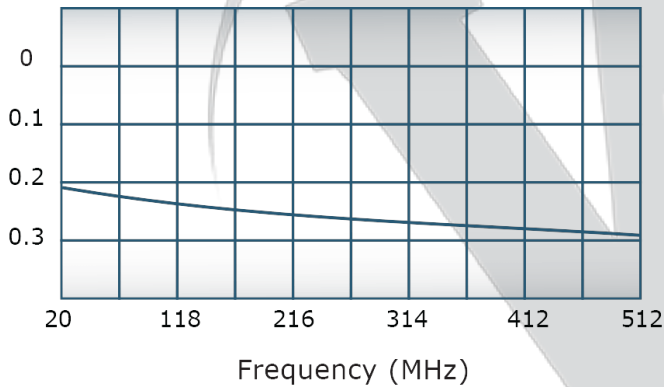
Coupling:



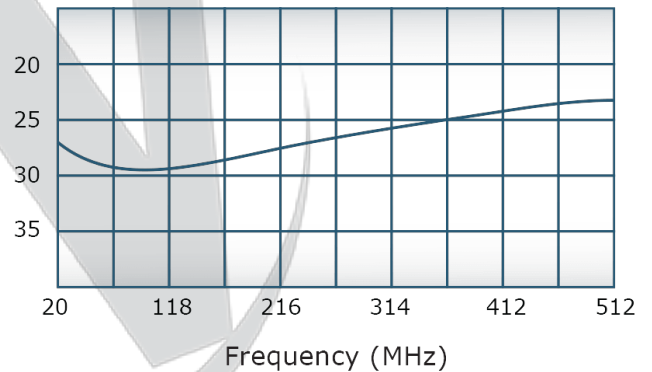
VSWR:



Insertion Loss:

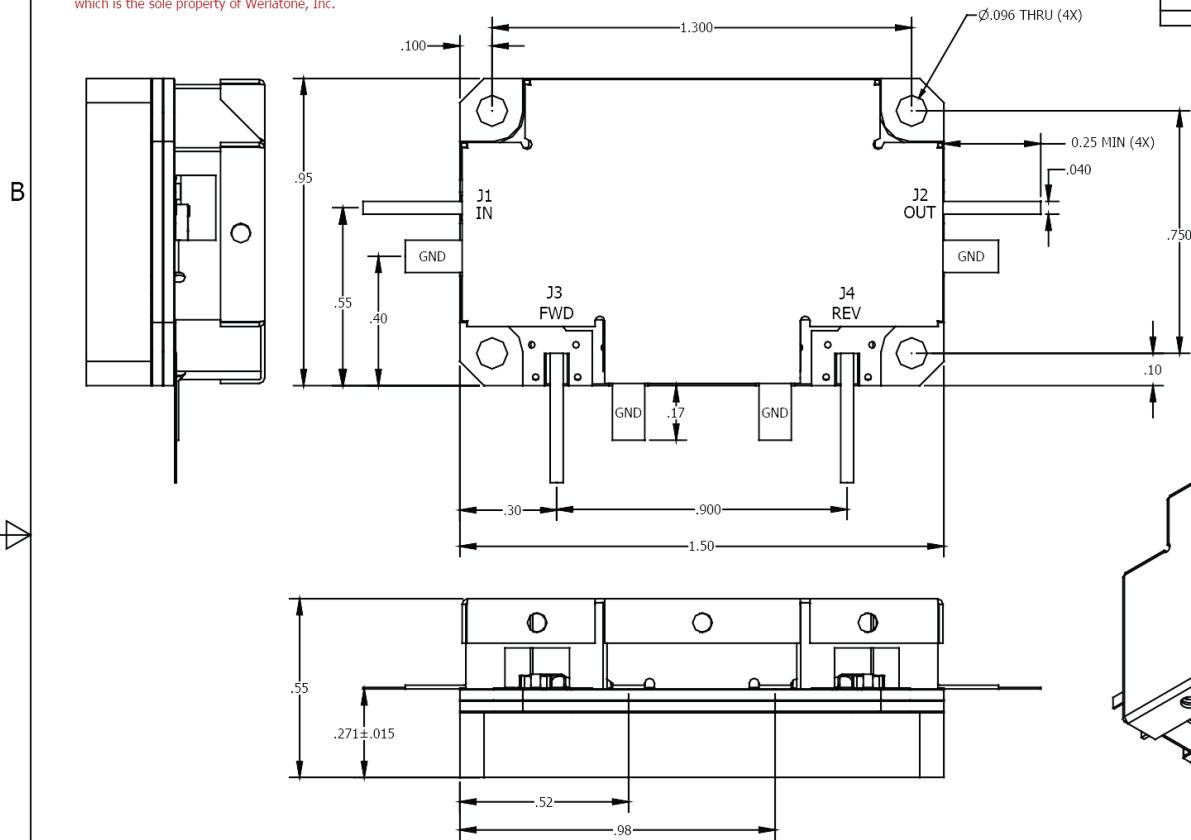


Directivity:



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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 MIL-STD-100		GP	4/29/2010	TITLE		
* DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE			
* PARENTHESES INFO FOR REF ONLY		NH	7/29/2010			
* DIMENSIONS ARE IN INCHES		ENGR	DATE			
* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		BW	7/29/2010			
* TOLERANCES: ANGLES $\pm$ 2°		DATE				
XXX $\pm$.005		DATE				
XX $\pm$.015		DATE				
THIRD ANGLE PROJECTION		QA	DATE	SIZE	CAGE CODE	DWG NO
		DATE		A	28812	20629-500
		DATE		SCALE	2:1	
		BW	7/29/2010			REV A
						SHEET 1 OF 1

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