

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.

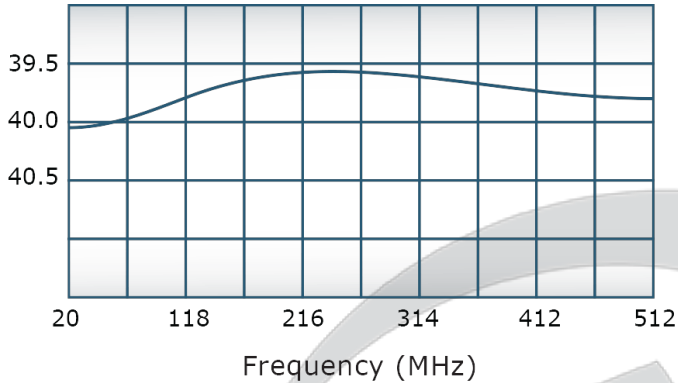


PRODUCT DATA SHEET

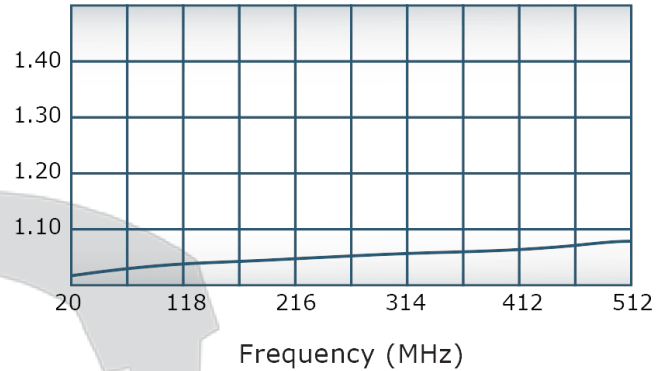
C8740

Performance Data (Specifications subject to change without notice):

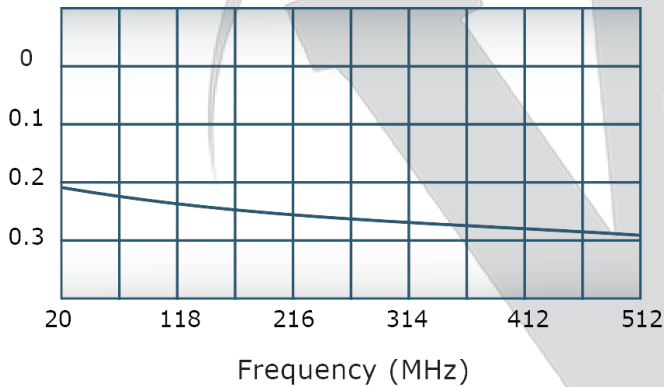
Coupling:



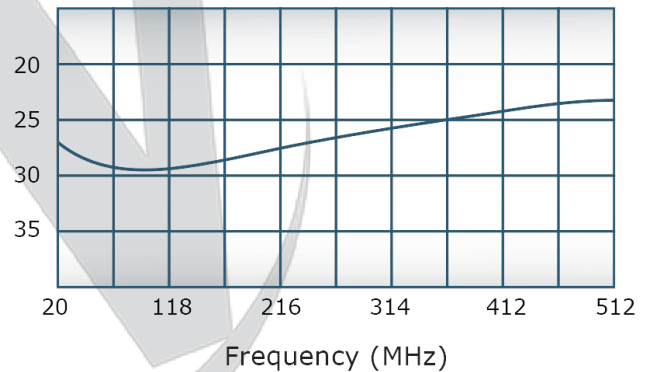
VSWR:



Insertion Loss:

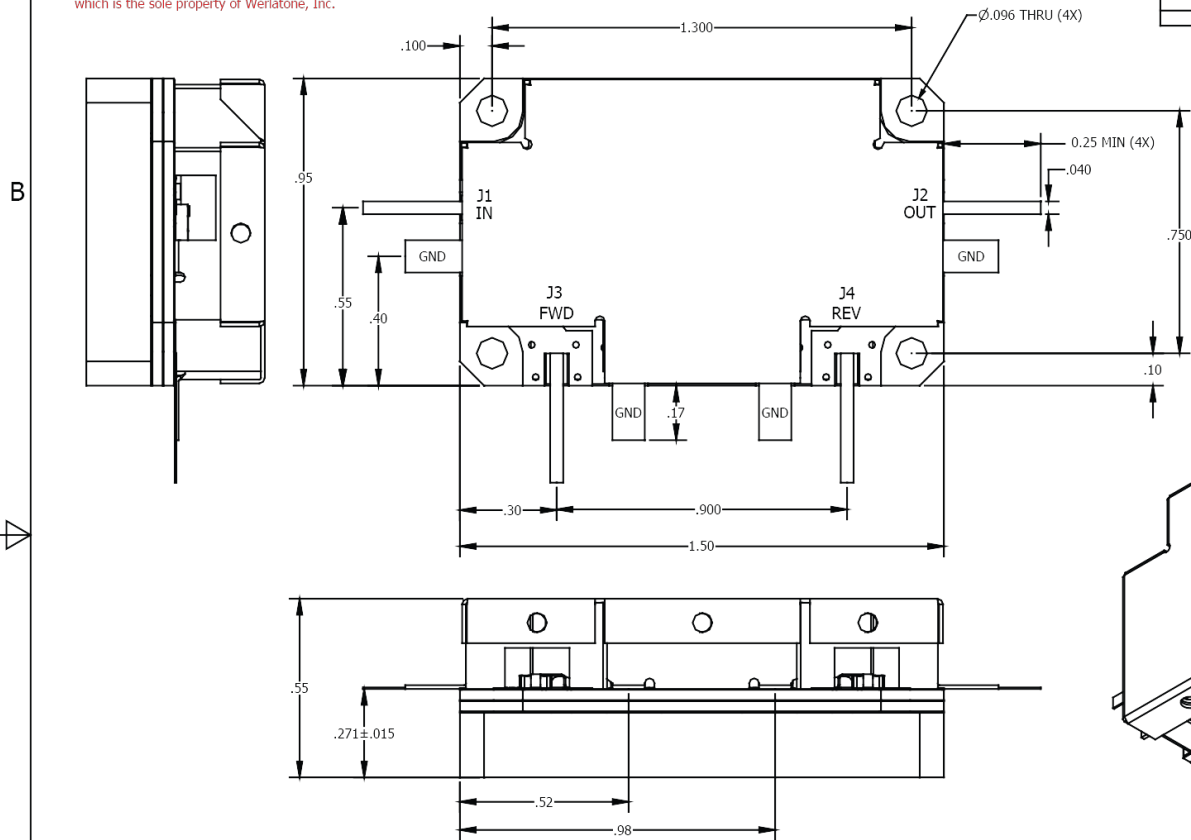


Directivity:



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

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