WERLATONE

Model C8740

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
Suface 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.

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

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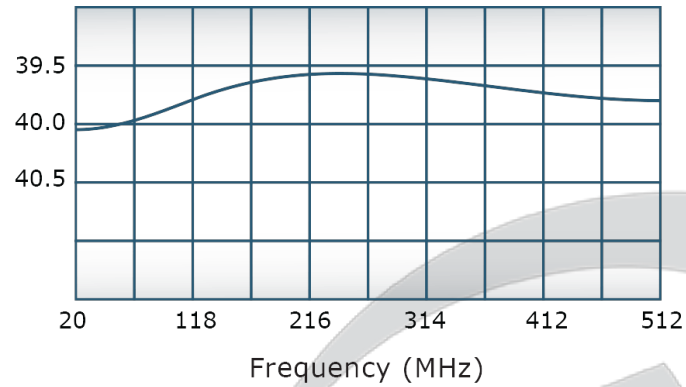
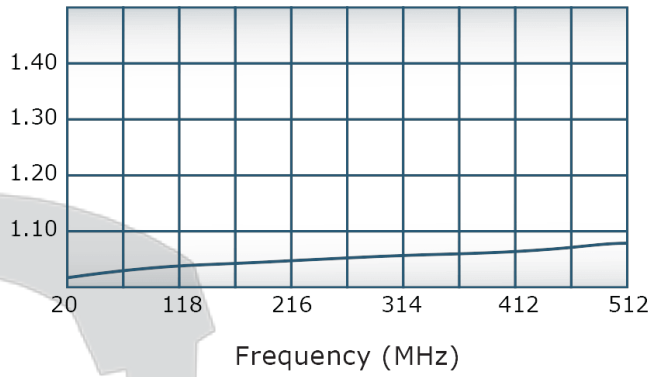
Performance Data (Specifications subject to change without notice):

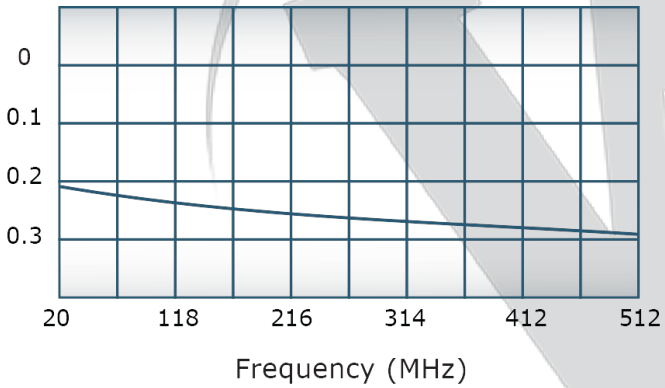
Coupling:



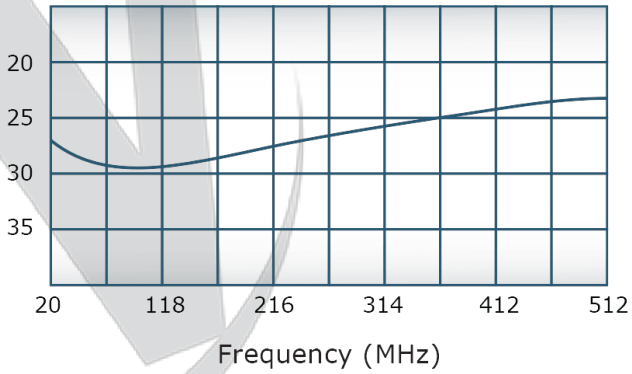
VSWR:



Insertion Loss:



Directivity:



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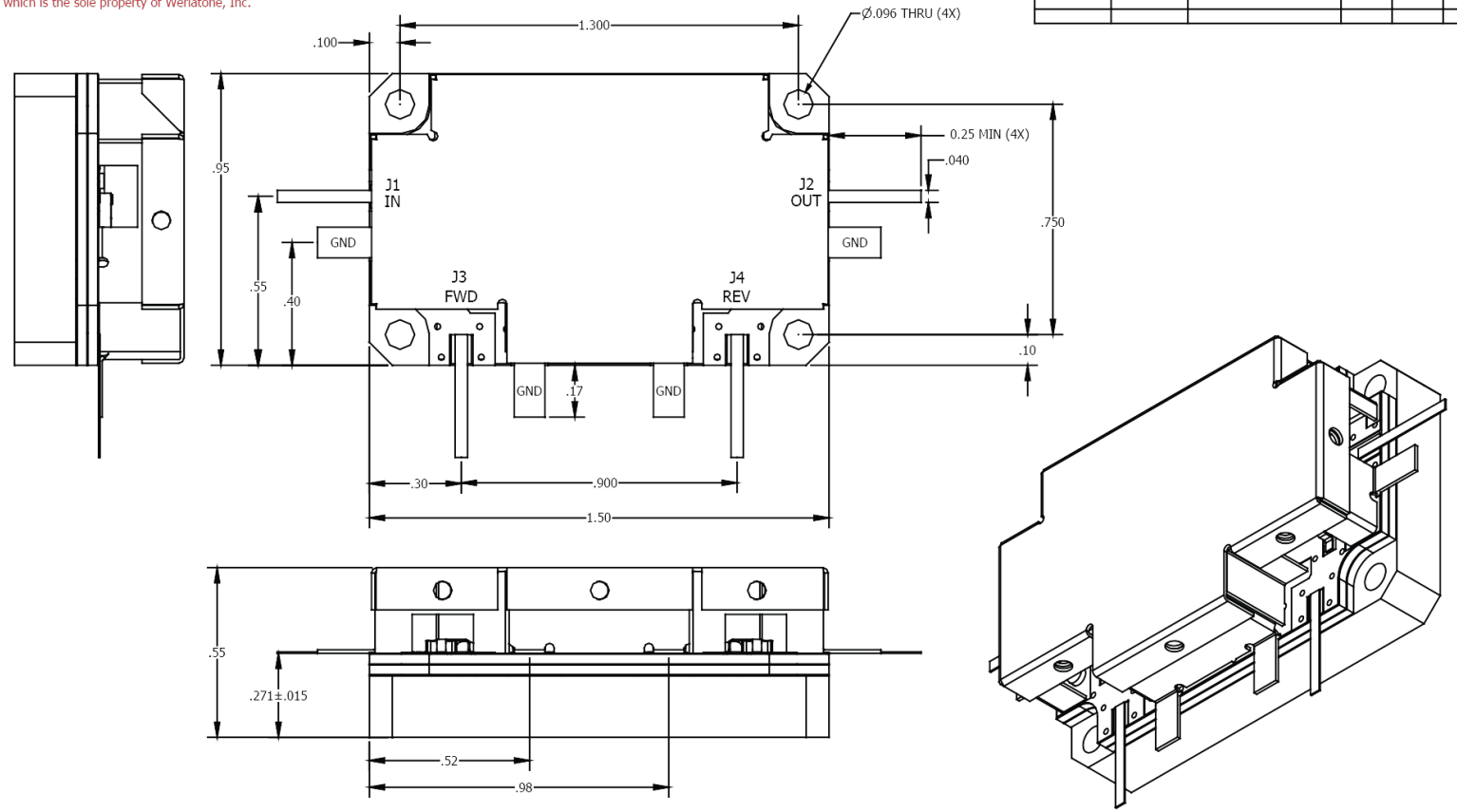
REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
7/29/2010	-	INITIAL RELEASE	GP	NH	
11/18/2010	A	ECN 5257	GP	NH	



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
° INTERPRET DRAWING IAW 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

DWN	GP	4/29/2010
CHK	NH	7/29/2010
ENGR	BW	7/29/2010
MFGR		
QA		
RLSE	BW	7/29/2010

WERLATONE | SINCE 1965
17 Jon Barrett Rd
Patterson, NY 12563

TITLE

USED ON

SIZE	CAGE CODE	DWG NO	REV
A	28812	20629-500	A

SCALE 2:1 SHEET 1 OF 1

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