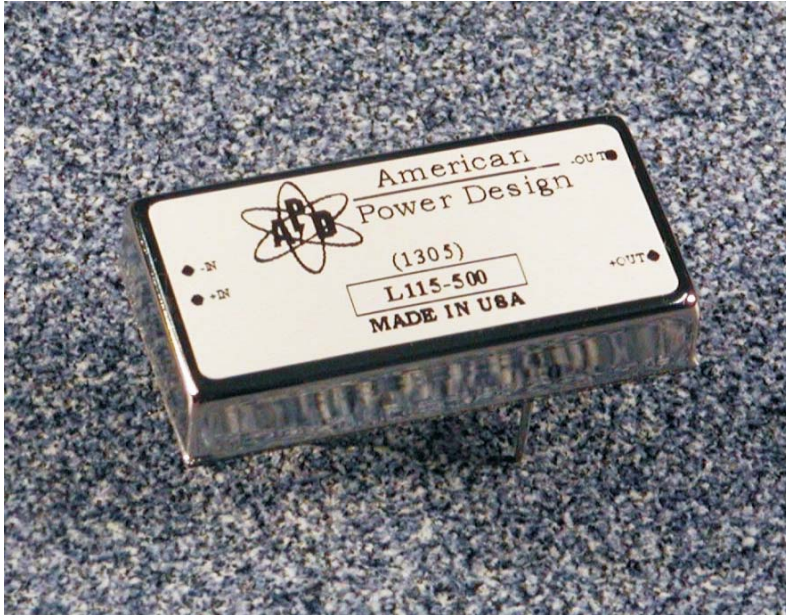




American Power Design, Inc.

"The best high voltage design solution"

L1 SERIES 1 WATT HIGH VOLTAGE LINEAR DC/DC CONVERTERS



FEATURES

* Customer Selects Output Voltage

- * Outputs to 500 Vdc
- * Low Profile
- * Excellent Line & Load Regulation
- * Low Output Ripple
- * 60 kHz Switching Frequency
- * 1000 Vdc Output Isolation
- * Continuous Short Circuit Protection
- * Economical

The L1 Series Low Profile DC/DC converter offers a 1000 Vdc isolated high voltage output in a six-sided copper case. Their small size, low output ripple, and excellent regulation characteristics make them ideally suited for applications that demand a high degree of performance. All models will tolerate a short circuit indefinitely.

ELECTRICAL SPECIFICATIONS

Voltage Accuracy	+/-1%	Input Range.....	+/-10%
Input Regulation	+/- 0.1%	Input Filter.....	Low ESR Capacitor
Load Regulation	+/- 0.2%	Short Circuit Protection	Continuous
Output Ripple	< 0.05%	Switching Frequency	60 kHz
		Isolation.....	1000 Vdc

GENERAL SPECIFICATIONS

Temp. Stability	+/-0.3%/°C	EMI/RFI.....	Six Sided Shield
Temp. (Operating , Case)	0 to +70°C	Temp. Derating.....	None
Temp. (Storage)	-40 to +100°C	Cooling.....	Free-Air Convection

* All models designed to meet UL 60950
 * For RoHS Compliant part, add suffix /Y

PHYSICAL SPECIFICATIONS

Dimensions	1 x 2 x 0.41 inches	Case Material	Nickel Plated Copper (With Non-Conductive Base Plate)
Weight	1.2 Oz		



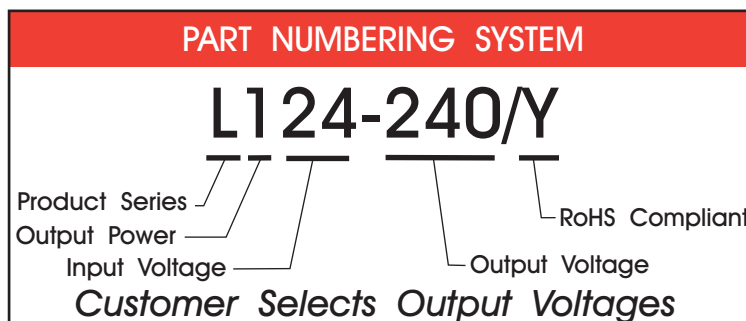
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REPRESENTATIVE MODEL LISTING					
OUTPUT SPECIFICATIONS		MODEL NUMBER			
OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT VDC 5 +/- .5	INPUT VDC 12 +/- 2	INPUT VDC 24 +/- 3	INPUT VDC 48 +/- 5
24 Vdc	42 mA	L15-24	L112-24	L124-24	L148-24
48 Vdc	20 mA	L15-48	L112-48	L124-48	L148-48
60 Vdc	17 mA	L15-60	L112-60	L124-60	L148-60
80 Vdc	13 mA	L15-80	L112-80	L124-80	L148-80
100 Vdc	10 mA	L15-100	L112-100	L124-100	L148-100
110 Vdc	9 mA	L15-110	L112-110	L124-110	L148-110
120 Vdc	8 mA	L15-120	L112-120	L124-120	L148-120
130 Vdc	7.7 mA	L15-130	L112-130	L124-130	L148-130
150 Vdc	6.7 mA	L15-150	L112-150	L124-150	L148-150
200 Vdc	5 mA	L15-200	L112-200	L124-200	L148-200
250 Vdc	4 mA	L15-250	L112-250	L124-250	L148-250
300 Vdc	3.3 mA	L15-300	L112-300	L124-300	L148-300
350 Vdc	2.8 mA	L15-350	L112-350	L124-350	L148-350
400 Vdc	2.5 mA	L15-400	L112-400	L124-400	L148-400
450 Vdc	2.2 mA	L15-450	L112-450	L124-450	L148-450
500 Vdc	2 mA	L15-500	L112-500	L124-500	L148-500

** RoHS Compliant add suffix /Y*

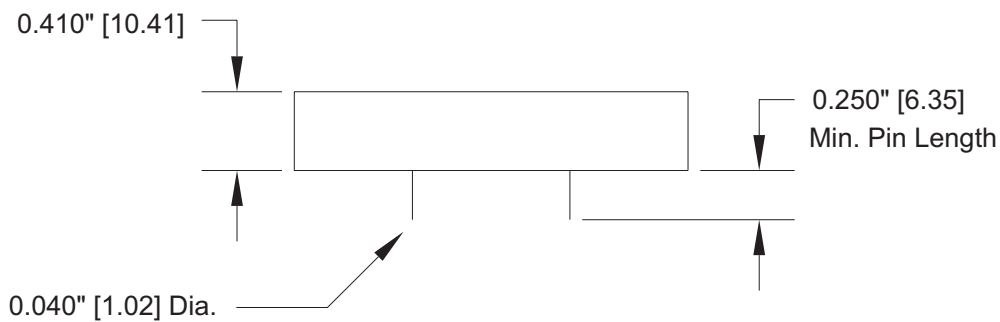
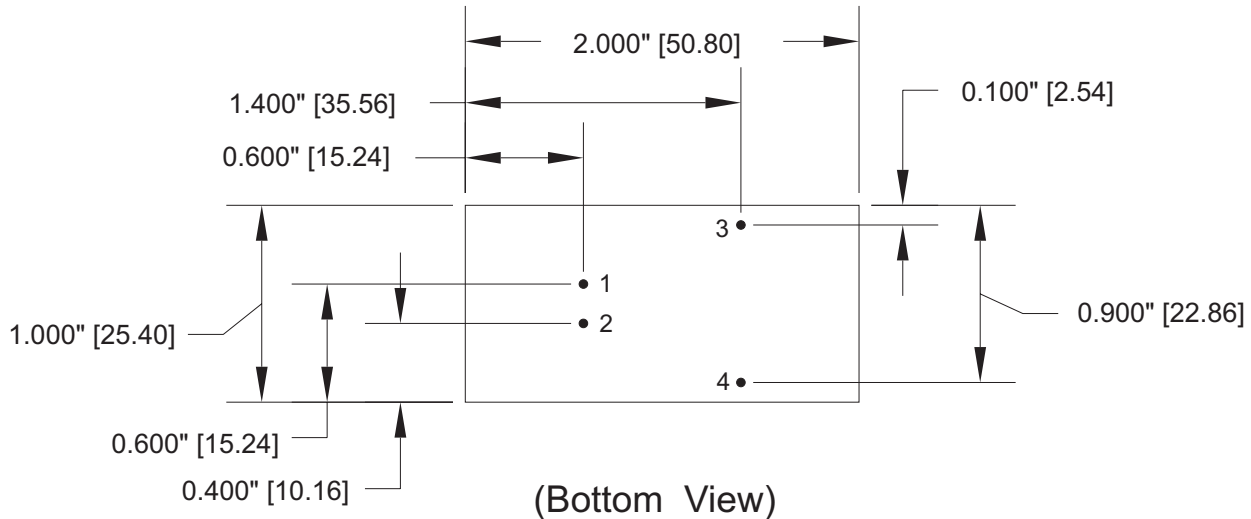




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L1 SERIES 1 WATT HIGH VOLTAGE LINEAR DC/DC CONVERTERS



Pin #	Single
1	+ INPUT
2	- INPUT
3	+ OUTPUT
4	- OUTPUT

*Dimensions are in Inches
[Metric equivalents in brackets]*