

Low Noise, Proportional High Voltage Modules

0 to + or - 300 through 0 to + or - 3,000 VDC @ 1.5 Watts
L Series

www.emcohighvoltage.com

EMCO
High Voltage Corporation



FEATURES

Low Ripple
Proven Reliability
Extensive Filtering and Shielding
Proportional Input/Output
Low Cost/High Performance
L15B and L30B replace obsolete
"Venus" C15 and C30 Models

OPTIONS

External Metal Enclosure
Two Pin-Patterns

APPLICATIONS

Photomultiplier Tubes
Mass Spectrometers
Avalanche Photo Diodes
Microchannel Plates

PHYSICAL CHARACTERISTICS

SIZE: 2.5 x 1.5 x 0.85 (64 x 38 x 22)
WEIGHT: 3 Ounces (85 Grams) Approx.
PACKAGING: Fully Encapsulated
CASE MATERIAL: Glass-filled Epoxy
MOUNTING: Four PC Pins
or Holes ("A" pin-out pattern only)

ELECTRICAL SPECIFICATIONS

INPUT VOLTAGE: 0 to 12 Volts
INPUT CURRENT: <150mA no load
<300mA full load
TYPICAL TURN-ON VOLTAGE: <2 Volts
OUTPUT VOLTAGE: See Table
OUTPUT CURRENT: See Table
RIPPLE: See Table
REGULATION: 10% (No Load to Full Load)
ISOLATION: 3,500 Volts
OPERATING TEMP: -10° to +60° C

The L Series is a line of small, versatile, component level building blocks that provide up to 3,000 VDC, positive or negative, in a compact PC mount package. The isolated output is directly proportional to the input. Either output may be grounded to generate positive or negative high voltage. Excellent filtering techniques

and a low noise sinewave oscillator provide clean, reliable DC to HV DC conversion with low ripple, noise, and EMI/RFI. Two pin-out options are available in this series; add an "A" or "B" for your choice (see below). An external metal enclosure is also available, just add an "AB" to the model number (i.e. L30BAB).

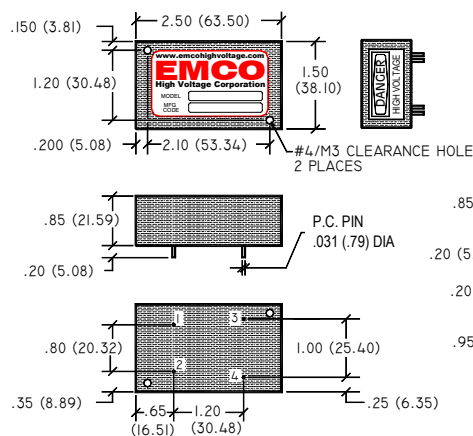
MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE
L03*	0 to 300	5.00 mA	0.075%
L05*	0 to 500	3.00 mA	0.075%
L10*	0 to 1,000	1.50 mA	0.025%
L12*	0 to 1,200	1.25 mA	0.025%
L15*	0 to 1,500	1.00 mA	0.030%
L20*	0 to 2,000	0.75 mA	0.025%
L25*	0 to 2,500	0.60 mA	0.200%
L30*	0 to 3,000	0.50mA	0.200%

* Pin-out pattern "A" or "B" must be specified with model number (e.g. L05B), see below.

Pin #	Function
1	(+) Input
2	(-) Input
3	(-) Output
4	(+) Output

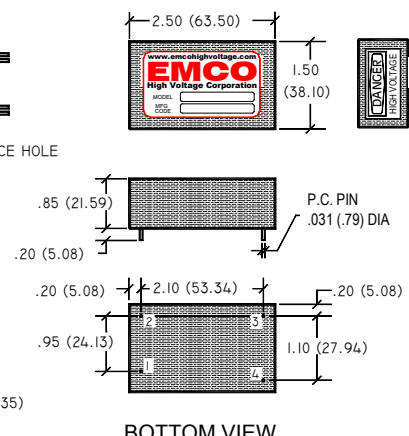
Dimensions are in Inches
Dimensional Tolerances: ± .03 (.76mm)
(Metric Equivalents in Parentheses)

PIN-OUT PATTERN "A"



BOTTOM VIEW

PIN-OUT PATTERN "B"



BOTTOM VIEW

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We reserve the right to make changes without notification