

Miniature Precision Regulated HV Supply

0 to $\pm 2,500$ through 0 to $\pm 4,000$ VDC @ 1 Watt
C Series



The C Series is a line of miniature, precision regulated high voltage supplies featuring excellent stability and low ripple. The output voltage is programmable via a 0 to 5 volt programming voltage. Temperature drift is typically less than 50 PPM/°C. These models exhibit very low ripple, noise, and EMI/RFI by utilizing a quasi-sinewave oscillator, excellent filtering techniques and an isolated steel

enclosure featuring a separate grounding pin. An externally accessible potentiometer provides adjustable gain trim allowing for individual calibration of units. Positive and negative outputs are standard. Delivery of small quantities is from stock. Call, fax, or e-mail your requirements for immediate attention. Technical assistance is readily available.

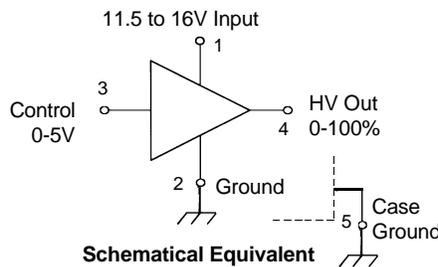
FEATURES

- High Stability, <50 PPM/°C typically
- 0 to 100% Programmable Output
- Ultra-Miniature Size
- Low Ripple
- External Gain Adjust
- Steel Case with Isolated Ground
- Wide Input Voltage Range
- Very Low EMI/RFI
- PCB Mountable
- High Performance/Low Cost

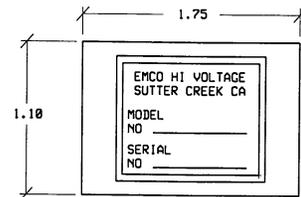
MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	TYPICAL INPUT CURRENT		RIPPLE	
			NO LOAD	FULL LOAD	NO LOAD	FULL LOAD
C25	0 to 2,500	0.4 mA	50mA	160mA	0.02%	0.1%
C25N	0 to -2,500	0.4 mA	50mA	160mA	0.02%	0.1%
C30	0 to 3,000	0.33 mA	60mA	170mA	0.02%	0.1%
C30N	0 to -3,000	0.33 mA	75mA	185mA	0.02%	0.1%
C40	0 to 4,000	0.25 mA	70mA	160mA	0.025%	0.1%
C40N	0 to -4,000	0.25 mA	75mA	190mA	0.05%	0.1%

APPLICATIONS

- Photomultiplier Tubes
- Avalanche Photodiodes
- Image Intensifiers
- Electrophoresis
- Q-Switches
- Grid Bias
- Solid State Detectors
- Portable Equipment



Schematic Equivalent

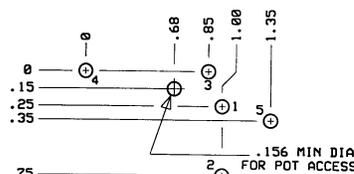


PHYSICAL CHARACTERISTICS

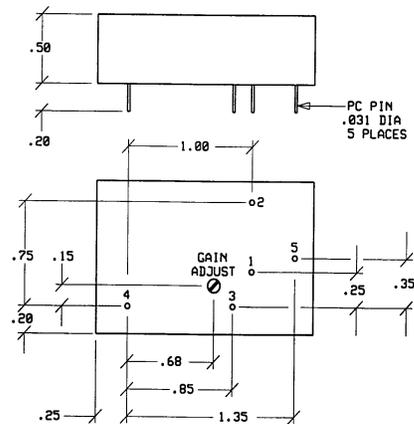
- SIZE: 1.75" x 1.1" x 0.5" (44 x 27.5 x 12.5 mm)
- WEIGHT: 1.4 Ounce (40 Grams)
- PACKAGING: Epoxy Encapsulated
- CASE MATERIAL: Zinc Plated Steel
- PINS: 0.03" Diameter, 0.2" Long (0.76 x 5 mm)

PIN #	FUNCTION
1	Input
2	Ground
3	Control Volt 0-5 V
4	Output
5	Case

Dimensional Tolerances: +/- 0.03



PC Layout Pattern
Component Side



ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE: 11.5 to 16 Volts
- INPUT CURRENT, FULL LOAD: See Table
- OUTPUT VOLTAGE: See Table
- OUTPUT CURRENT: See Table
- CONTROL VOLTAGE: 0 to 5 Volts, <50 uA
- RIPPLE: See Table
- REGULATION, LINE AND LOAD: 0.25%
- OPERATING TEMP: -10° to +60° C