

- **LOW COST, SMALL SIZE**
- **ARC AND SHORT-CIRCUIT PROTECTED**
- **OUTPUT PROPORTIONAL TO INPUT**
- **INPUT TO OUTPUT ISOLATION**
- **OEM CUSTOMIZATION AVAILABLE**

Spellman's MC Series miniature high voltage dc to dc converters are ideally suited for low power applications. They are designed for direct PCB mounting with output voltages to 2400V. All units are short-circuit protected. Input to output isolation permits positive or negative grounding for either positive or negative high voltage output. Radiated magnetic fields are minimized by winding the internal high voltage transformer on a ferrite pot core. Lower output ripple can be achieved by adding an external filter capacitor.

TYPICAL APPLICATIONS

Photomultiplier Tubes
 Ionization Chambers
 Geiger Tubes
 Medical Electronics
 CRT Focus and Bias

SPECIFICATIONS

Input Voltage:

10Vdc. Other input voltages are available upon special order.

Input Current:

<100mA at full output.

Output Power:

Up to 200mW continuous. See Selection Table. 1W versions are available on special order.

Output Voltages & Currents:

Preset voltages between 250V and 2400V are available. See Selection Table.

Voltage Regulation:

Load: 5%, half load to full load.

Ripple:

0.2% p-p of full output voltage.

Insulation Strength:

3kV Input/Output.

Temperature:

Operating: 0°C to +70°C.
 Storage: -45°C to +85°C.

Humidity:

0 to 90%, non-condensing.

Terminations:

4PC pins: 0.250" (6.35mm) length;
 PCB plated through holes; 0.043" (1.1mm) 4 required.

Dimensions:

0.63"H x 1.5"W x 1.5"D (16mm x 38.1mm x 38.1mm).

Weight:

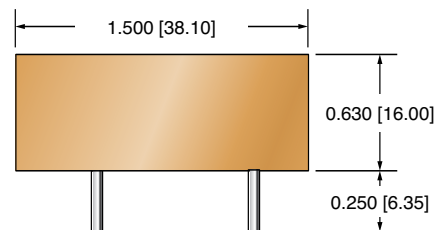
1.35oz (38gm).

MC SELECTION TABLE

OUTPUT VOLTAGE (V)	OUTPUT CURRENT (μA)	MODEL
250	300	MC 0.25PN
500	250	MC 0.50PN
1200	150	MC 1.2PN
2400	80	MC 2.4PN

DIMENSIONS: in.[mm]

SIDE VIEW



TOP VIEW

