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**

<table>
<thead>
<tr>
<th>OUTPUT VOLTAGE (V)</th>
<th>OUTPUT CURRENT (µA)</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>300</td>
<td>MC 0.25PN</td>
</tr>
<tr>
<td>500</td>
<td>250</td>
<td>MC 0.50PN</td>
</tr>
<tr>
<td>1200</td>
<td>150</td>
<td>MC 1.2PN</td>
</tr>
<tr>
<td>2400</td>
<td>80</td>
<td>MC 2.4PN</td>
</tr>
</tbody>
</table>

**DIMENSIONS: in.[mm]**

**SIDE VIEW**

**TOP VIEW**