The 1T2 is a high voltage vacuum rectifier with a directly heated cathode. It is especially designed for providing high tension power for cathode ray tubes from a radio-frequency source or by rectification of the fly-back voltage.

MECHANICAL DATA

Coated filament.
Outline drawing ....... None at present. Bulb ....... No number at present.
Base ................................................. No number at present.
Maximum diameter .................................... 17/32"
Maximum overall length, including leads ....................... 4.1/2"
Maximum length, excluding leads ........................ 1.29/32"
Pin connections ....................................... No basing number at present.

Base lead 1 - Filament  Top lead - Plate
Base lead 2 - Filament

Mounting position ........................................ any

ELECTRICAL DATA

Direct Inter-electrode capacitances
Plate to filament (p to f) .................................. 0.65 μf

Ratings

Filament voltage (ac or dc) .................................. 1.4 volts
Filament current .............................................. 140 mA
Maximum peak inverse voltage .......................... 15,000 volts
Maximum steady state peak plate current ................. 12 mA
Maximum dc output current .................................. 2 mA
Tube voltage drop (measured with tube conducting 4 mA) .... 46 volts
Typical operating conditions and characteristics (fly-back pulse rectifier)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filament current</td>
<td>140 mA</td>
</tr>
<tr>
<td>Peak inverse voltage</td>
<td>7,500 volts</td>
</tr>
<tr>
<td>Input condenser</td>
<td>0.001 ( \mu )F</td>
</tr>
<tr>
<td>D-C output potential</td>
<td>7,000 volts</td>
</tr>
<tr>
<td>D-C output current</td>
<td>100 ( \mu )A</td>
</tr>
</tbody>
</table>

* For circuits where the anode voltage rises at approximately the same rate as the filament voltage (e.g. in fly-back and radio frequency oscillator circuits).
  Where used on power input circuits with full \( \text{A} \).C. anode volts applied on switching, the maximum peak inverse voltage is 10,000 volts.

** The filament should be run at the same temperature as it would attain if operated at 1.4 Vdc.

Refer to "Interpretation of Receiving Tube Ratings"