**Features**
- Carbon element
- Insulated shaft
- Snap-in clip
- Center detent
- Center tap option
- Assorted pin layouts
- Dual gang option
- Various taper options

**PTV/PTT Series - 12 mm Potentiometer**

**Electrical Characteristics**
- Taper: Linear, audio
- Standard Resistance Range: 1 K ohms to 1 M ohms
- Standard Resistance Tolerance: ±20 %
- Residual Resistance: 1 % max.

**Environmental Characteristics**
- Operating Temperature: -10 °C to +50 °C
- Power Rating: 0.05 Watt
- Maximum Operating Voltage: 50 V AC, 20 V DC
- Sliding Noise: 100 mV max.

**Mechanical Characteristics**
- Mechanical Angle: 300 ° ±5 °
- Rotational Torque: 20 to 200 g-cm
- Detent Torque: 30 to 300 g-cm
- Stop Strength: 3 kg-cm min.
- Rotational Life: 15,000 cycles
- Soldering Condition: 300 °C max. within 3 seconds

**Hardware**
- One flat washer and mounting nut supplied per potentiometer with bushing

**Product Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>terminal detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTV111-2</td>
<td>12.0 (472)</td>
<td>1.6 (662)</td>
</tr>
<tr>
<td></td>
<td>9.4 (370)</td>
<td>0.8 (31)</td>
</tr>
<tr>
<td>PTV111-4</td>
<td>12.0 (472)</td>
<td>1.1 (44)</td>
</tr>
<tr>
<td></td>
<td>8.5 (334)</td>
<td>0.8 (31)</td>
</tr>
</tbody>
</table>

**Dimensions Without Bushing**

<table>
<thead>
<tr>
<th>Model</th>
<th>L (MM)</th>
<th>F (MM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTV111-2</td>
<td>16.5</td>
<td>4.5 (177)</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.
Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.
PTV/PTT Series - 12 mm Potentiometer

How To Order

PTV111 - 2 4 20 A - A1 104

Model
(See Diagrams)
• PTV111 Standard
• PTT111 With Tap
• PTV112 Dual Gang

Pin Style
PC Pins vertical/
Down Facing:
• 1 = With Bushing
• 2 = No Bushing
PC Pins horizontal/
Rear Facing:
• 3 = With Bushing
• 4 = No Bushing

Center Detent Option
• 4 = No Detent
• 2 = Center Detent

Standard Shaft Length
• 12 = 12.5 mm*
• 15 = 15 mm
• 17 = 17.5 mm**
• 20 = 20 mm
• 22 = 22.5 mm**
• 25 = 25 mm**
• 27 = 27.5 mm**

Shaft Styles
• A = Flat Type Insulated Shaft

Resistance Taper (See Taper Chart)
Taper Series followed by Curve Number

Resistance Code (See Table)
Other styles available.
* Available with Pin Styles 1 & 3 only.
** Available with Pin Styles 2 & 4 only.

Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>102</td>
</tr>
<tr>
<td>2,000</td>
<td>202</td>
</tr>
<tr>
<td>5,000</td>
<td>502</td>
</tr>
<tr>
<td>10,000</td>
<td>103</td>
</tr>
<tr>
<td>20,000</td>
<td>203</td>
</tr>
<tr>
<td>50,000</td>
<td>503</td>
</tr>
<tr>
<td>100,000</td>
<td>104</td>
</tr>
<tr>
<td>200,000</td>
<td>204</td>
</tr>
<tr>
<td>500,000</td>
<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

Derating Curve

Rating Power Ratio (%)

Ambient Temperature (°C)

Tapers

A Series Tapers

B Series Tapers

C Series Tapers

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.