**Features**
- Carbon element
- Insulated shaft
- Wide variety of mounting styles
- Center detent option
- RoHS compliant *

**PTV09 Series - 9 mm Potentiometer**

**Electrical Characteristics**
- **Taper**: Linear, audio
- **standard resistance range**: 1 K ohms to 1 M ohms
- **standard resistance tolerance**: ±20 %
- **Residual Resistance**: 500 ohms or ±1 % max.

**Environmental Characteristics**
- **Operating Temperature**: -10 °C to +50 °C
- **Power Rating**: (Linear and Audio) 0.05 watt
- **Maximum Operating Voltage**: (Linear and Audio) 20 VDC, 50 VAC
- **Sliding Noise**: 100 mV max.

**Mechanical Characteristics**
- **Mechanical Angle**: 280 ° ±10 °
- **Rotational Torque**: 10 to 100 g-cm
- **Detent Torque**: 20 to 200 gf-cm
- **Stop Strength**: 2 kg-cm min.
- **Rotational Life**: 10,000 cycles
- **Soldering Condition**: 300 °C max. within 3 seconds
- **Hardware**: One flat washer and one hex nut supplied with bushing version

**How To Order**
- **PTV09A-2 0 20 F - B 203**

**Product Dimensions**

**Schematic**

**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>
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<tr>
<td>50,000</td>
<td>503</td>
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<td>100,000</td>
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<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>

Applications
- Commercial communications equipment
- Portable electronics
- Amplifiers/mixers/drum machines/synthesizers
- Consumer goods
- Commercial appliances

PTV09 Series - 9 mm Potentiometer

Product Dimensions (Continued)

PTV09A-3
(Vertical/Side Mount, Bushingless, 6.5 mm Height)

PTV09A-4
(Horizontal/Rear Mount, Bushingless)

PTV09A-5
(Horizontal/Rear Mount w/Plastic Plain Bushing)

Shaft Styles

F-Type

S-Type

U-Type

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36 State Route 10, STE 6 • East Hanover, NJ 07936-0436
973-887-2550 • Toll Free 1-800-631-8083 • Fax 973-887-1940
http://www.potentiometers.com
PTV09 Series - 9 mm Potentiometer

Product Dimensions (Continued)

PTV09A-6
(Horizontal/Rear Mount w/Metal Threaded Bushing)

PTV09A-7
(Vertical/Side Mount w/Sleeve Bushing, 6.5 mm Height)

PTV09A-8
(Vertical/Side Mount w/Sleeve Bushing, 10 mm Height)

Mounting Hardware

SHAFT SHOWN IN CENTER POSITION

DIMENSIONS:  MM (INCHES)

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Derating Curve

![Derating Curve Graph]

Tapers

A Series Tapers

B Series Tapers

C Series Tapers

REV. 08/13

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

For more information about this product, visit our website at: [www.potentiometers.com](http://www.potentiometers.com)