PTB Series - Low Profile Slide Potentiometer

Features
- Carbon element
- Metal housing
- 45-100 mm travel
- Single and dual gang
- Dust cover option
- RoHS compliant*

Electrical Characteristics
- Taper: Linear, audio
- Standard Resistance Range: 5K ohms to 200K ohms
- Standard Resistance Tolerance: ±20%
- Residual Resistance: ≤500 ohms or 1% max.
- Insulation Resistance: Min. 100 megohms at 250 V DC

Environmental Characteristics
- Operating Temperature: -10 °C to +60 °C
- Power Rating, Linear:
  - 45 mm...0.125 W (0.06 W Dual Gang)
  - 60 mm...0.25 W (0.125 W)
  - 100 mm...0.5 W (0.5 W)
- Power Rating, Audio:
  - 45 mm...0.025 W (0.015 W Dual Gang)
  - 60 mm...0.25 W (0.25 W)
- Maximum Operating Voltage - Linear:
  - 45 mm...350 VDC
  - 60-100 mm...500 VDC
- Maximum Operating Voltage - Audio:
  - 45 mm...250 VDC
  - 60-100 mm...350 VDC
- Withstand Voltage, Audio: 1 Min. at 500 V AC
- Tracking Error: 3 dB at 50% of travel

Mechanical Characteristics
- Operating Force: 10 to 100 g-cm
- Stop Strength: 5 kg-cm min.
- Sliding Life: 15,000 cycles
- Soldering Condition: 300°C max. within 3 seconds
- Travel: 45, 60, 100 mm

Derating Curve

Product Dimensions

- **PTB45 and PTB60**

- **Electrical Characteristics**
  - **Taper**: Linear, audio
  - **Standard Resistance Range**: 5K ohms to 200K ohms
  - **Standard Resistance Tolerance**: ±20%
  - **Residual Resistance**: ≤500 ohms or 1% max.
  - **Insulation Resistance**: Min. 100 megohms at 250 V DC

- **Environmental Characteristics**
  - **Operating Temperature**: -10 °C to +60 °C
  - **Power Rating, Linear**:
    - 45 mm...0.125 W (0.06 W Dual Gang)
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    - 45 mm...350 VDC
    - 60-100 mm...500 VDC
  - **Maximum Operating Voltage - Audio**:
    - 45 mm...250 VDC
    - 60-100 mm...350 VDC
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  - **Tracking Error**: 3 dB at 50% of travel

- **Mechanical Characteristics**
  - **Operating Force**: 10 to 100 g-cm
  - **Stop Strength**: 5 kg-cm min.
  - **Sliding Life**: 15,000 cycles
  - **Soldering Condition**: 300°C max. within 3 seconds
  - **Travel**: 45, 60, 100 mm

- **Derating Curve**

- **Dimensions**:
  - **PTB45 and PTB60**
  - **Lever Style**: BP Metal Lever
  - **AP Metal Lever**
  - **Thickness**: 1.2 mm

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.
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Product Dimensions

How To Order

PTB 01 4 3 - 2 0 10 BP A 102

Model

Stroke Length

• 45 = 45 mm
• 60 = 60 mm
• 01 = 100 mm

Dust Cover Option

• 4 = No Dust Cover
• 5 = Rubber Dust Cover

No. of Gangs

• 3 = Single Gang
• 4 = Dual Gang

Pin Style

• 2 = PC Pins Down Facing

No Detent

Standard Lever Length

• 10 = 10 mm

Lever Style

• BP = Metal Lever (Refer to Drawing)
• AP = Metal Lever (Refer to Drawing)

Resistance Taper

• A = Audio Taper
• B = Linear Taper

Resistance Code (See Table)

Other styles available.

Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
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<tbody>
<tr>
<td>5,000</td>
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<tr>
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<td>104</td>
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<tr>
<td>200,000</td>
<td>204</td>
</tr>
</tbody>
</table>

Applications

■ Audio/TV sets
■ Car radio
■ Amplifiers/mixers/drum machines/synthesizers
■ PCs/monitors
■ Appliances

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