Features
- Carbon element
- Metal housing
- 15-60 mm travel
- Single and dual gang
- Center detent option
- Dust cover option
- RoHS compliant*


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.

---

**Environmental Characteristics**

Operating Temperature
- -10 °C to +50 °C

Power Rating, Linear
- 15 mm: 0.05 W (0.025 W Dual Gang)
- 20 mm: 0.1 W (0.05 W)
- 30 mm: 0.2 W (0.1 W)
- 45 mm: 0.25 W (0.125 W)
- 60 mm: 0.25 W (0.125 W)

Power Rating, Audio
- 15 mm: 0.025 W (0.015 W Dual Gang)
- 20 mm: 0.05 W (0.025 W)
- 30 mm: 0.1 W (0.05 W)
- 45 mm: 0.125 W (0.06 W)
- 60 mm: 0.125 W (0.06 W)

Maximum Operating Voltage, Linear
- 15 mm: 100 V DC
- 20-60 mm: 200 V DC

Maximum Operating Voltage, Audio
- 15 mm: 50 V DC
- 20-60 mm: 150 V DC

Withstand Voltage, Audio
- 1 Min. at 300 V AC

Sliding Noise: 100 mV maximum

Tracking Error: 3 dB at -40 to 0 dB

---

**Mechanical Characteristics**

Operating Force: 30 to 250 g-cm

Stop Strength: 5 kg-cm min.

Soldering Condition: 300 °C max. within 3 seconds

Travel: 15, 20, 30, 45, 60 mm

---

**Derating Curve**

- **Rating Power Ratio (%)**
  - **Ambient Temperature (°C)**
    - 0: 100
    - 10: 90
    - 20: 80
    - 30: 70
    - 40: 60
    - 50: 50
    - 60: 40
    - 70: 30
    - 80: 20
    - 90: 10
    - 100: 0

---

**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.

Insulation Resistance: Min. 100 megohms at 250 V DC

---

**Environmental Characteristics**

Operating Temperature
- -10 °C to +50 °C

Power Rating, Linear
- 15 mm: 0.05 W (0.025 W Dual Gang)
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    - 80: 20
    - 90: 10
    - 100: 0

---

**How To Order**

**PTA Series - Low Profile Slide Potentiometer**

**PTA 15 4 3 - 2 0 10 DP B 203**

**Model**

- **Stroke Length**
  - 15 = 15 mm
  - 20 = 20 mm
  - 30 = 30 mm
  - 45 = 45 mm
  - 60 = 60 mm

**No. of Gangs**

- 3 = Single Gang
- 4 = Dual Gang

**Pin Style**

- PC Pins Down Facing

**Center Detent Option**

- 0 = No Detent
- 2 = Center Detent

**Resistance Taper**

- A = Audio Taper
- B = Linear Taper

**Resistance Code**

- (See Table)

**Lever Style**

- DP = Metal Lever (Refer to Drawing)
- CP = Metal Lever (Refer to Drawing)
- CI = Insulated Lever (Refer to Drawing)

**Standard Lever Length**

- (See Table)
  - 10 = 10 mm (CI Lever)
  - 15 = 15 mm (DP, CP and CI)

**Soldering Condition**

- (See Table)
  - 300 °C max. within 3 seconds

**Travel**

- 15, 20, 30, 45, 60 mm

**Standard Resistance Table**

- **Resistance (Ohms)**
  - 1,000
  - 5,000
  - 10,000
  - 20,000
  - 50,000
  - 100,000
  - 200,000
  - 500,000
  - 1,000,000

- **Resistance Code**
  - 102
  - 502
  - 103
  - 203
  - 503
  - 104
  - 204
  - 504
  - 105

**Dust Cover Option**

- 4 = No Dust Cover
- 5 = Rubber Dust Cover**

---

**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.

- **Insulation Resistance**
  - Min. 100 megohms at 250 V DC

---

**Lever Style & Product Dimensions**

- **Actuator Styles**
  - DP METAL LEVER
  - CP METAL LEVER
  - CI INSULATED LEVER

- **Resistance Taper**
  - A = Audio Taper
  - B = Linear Taper

- **Resistance Code**
  - (See Table)

**Mechanical Characteristics**

- **Operating Force**
  - 30 to 250 g-cm

- **Stop Strength**
  - 5 kg-cm min.

- **Soldering Condition**
  - 300 °C max. within 3 seconds

- **Travel**
  - 15, 20, 30, 45, 60 mm

**Derating Curve**

- **Rating Power Ratio (%)**
  - **Ambient Temperature (°C)**
    - 0: 100
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    - 20: 80
    - 30: 70
    - 40: 60
    - 50: 50
    - 60: 40
    - 70: 30
    - 80: 20
    - 90: 10
    - 100: 0

---

**Standard Resistance Table**

- **Resistance (Ohms)**
  - 1,000
  - 2,000
  - 5,000
  - 10,000
  - 20,000
  - 50,000
  - 100,000
  - 200,000
  - 500,000
  - 1,000,000

- **Resistance Code**
  - 102
  - 202
  - 502
  - 103
  - 203
  - 503
  - 104
  - 204
  - 504
  - 105

---

**Optional Dust Cover**

- **Typical Dimensions**
  - Width: 59 ± 0.5 (2.323 ± .020)
  - Height: 8.2 ± 0.2 (3.232 ± .008)

**NOTE:** DUST COVER HAS ADHESIVE BACK.

---


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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.
**Applications**
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

---

**PTA Series - Low Profile Slide Potentiometer**

**Product Dimensions**

**PTAxx43**

**PTAxx44**

**Single Gang Dimensions**

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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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**Dual Gang Dimensions**

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