### Electrical Characteristics

**Standard Resistance Range**
- 1K ohms to 1 megohm

**Standard Resistance Tolerance**
- ±20%

**End Resistance**
- 2 ohms max.

**Insulation Resistance @ 100 VDC**
- ≥250 VAC

**Dielectric Withstanding Voltage**
- Linear, Audio

**Tracking Error**
- ±2 dB

**Power Rating**
- Linear: 0.2 watt
- Audio: 0.1 watt

**Slider Noise**
- 100 mV max.

### Environmental Characteristics

**Operational Life**
- 100,000 cycles

**TR Shift**
- ±15%

**Operating Temperature Range**
- -10 °C to +55 °C

**Resistance to Solder Heat**
- ±5%

### Mechanical Characteristics

**Mechanical Angle**
- 300° ±5°

**Mechanical Travel**
- ±0.5 mm

**Operating Force**
- 50 gf

**Stop Strength**
- 5 kgf min.

**Shaft Axial Force**
- 5 kgf min.

**Shaft Wobble**
- 2(2 x L/25) mm p-p max.

**Soldering Condition**
- Manual: 300 °C ±5 °C for 3 sec.
- Wave: 260 °C ±5 °C for 5 sec.
- Wash: Not recommended

### 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>
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<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>
## Specifications

### Applications
- Mixing consoles
- Drum machines
- Keyboards and synthesizers
- Equalizers

## PTE Series Low Profile Slide Potentiometer

### Tapers

**A Series Tapers**

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Output Voltage across Terminals 1-2</th>
<th>Input Voltage across Terminals 1-3 X 100 (%)</th>
<th>Rotational Travel (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**B Series Tapers**

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Output Voltage across Terminals 1-2</th>
<th>Input Voltage across Terminals 1-3 X 100 (%)</th>
<th>Rotational Travel (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**C Series Tapers**

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Output Voltage across Terminals 1-2</th>
<th>Input Voltage across Terminals 1-3 X 100 (%)</th>
<th>Rotational Travel (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Product Dimensions

**60 mm Length of Travel**

**Lever End Style “A”**

- **Lever Length**: 15.0 (0.591)
- **Rotational Travel %**: 20.0 (0.787)

### Users

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**PTE Series Low Profile Slide Potentiometer**

### Additional Lever End Styles

#### Lever End Style “C”

![Diagram of Lever End Style “C”]

**DIMENSIONS:** MM (INCHES)

- **Lever Length:** 12.0 ± 0.1 (0.472 ± 0.004)

#### Lever End Style “D”

![Diagram of Lever End Style “D”]

**Leaver Length**

- 12.8 (0.504)
- 20.0 (0.787)

#### Lever End Style “E”

![Diagram of Lever End Style “E”]

**Leaver Length**

- 15.0 (0.591)
- 20.0 (0.787)

### How To Order

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Designator</th>
<th>PTE = Low Profile Slide Potentiometer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PTE 45 - 15 2 A - 103 B2</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Model Number**
- **Designator**

**Length of Travel**

- 45 = 45 mm
- 60 = 60 mm

**Lever Length**

- 12 = 12 mm (Available with Lever End Style C)
- 13 = 12.8 mm (Available with Lever End Style D)
- 15 = 15 mm (Available with Lever End Styles A,B,E)
- 20 = 20 mm (Available with Lever End Styles A,B,D,E)

**No. of Gangs**

- 1 = Single Gang
- 2 = Dual Gang

**Metal Lever End Style**

- A
- D
- B
- E
- C

**Resistance Code**

(See Standard Resistance Table)

**Resistance Taper** (See Taper Charts)

Taper Series followed by Curve Number

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REV. 04/23

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