Features
- Carbon element
- Assortment of resistance tapers
- 45 mm and 60 mm travel lengths
- Single and dual gang elements
- Long operational life
- Tracking error within ±2 dB
- Various lever styles

PTE Series Low Profile Slide Potentiometer

Electrical Characteristics

Standard Resistance Range
- 1K ohms to 1 megohm
End Resistance
- 2 ohms max.
Insulation Resistance
- 100 VDC
100 megohms min.

Dielectric Withstanding Voltage
- 250 VAC

Tracking Error
- ±2 dB

Standard Taper
- Linear, Audio

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

Slider Noise
- 100 mV max.

Environmental Characteristics

Operating 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
- Length ±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>
</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>

Schematics

Single Gang

Dual Gang
Applications

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

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**PTE Series Low Profile Slide Potentiometer**

**Product Dimensions**

60 mm Length of Travel
Lever End Style “A”

**Tapers**

<table>
<thead>
<tr>
<th>Terminal 1</th>
<th>Output Voltage across Terminals 1-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>1.0</td>
<td>0.020</td>
</tr>
<tr>
<td>2.0</td>
<td>0.039</td>
</tr>
<tr>
<td>3.0</td>
<td>0.059</td>
</tr>
</tbody>
</table>

**Specifications**

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.
PTE Series Low Profile Slide Potentiometer

Additional Lever End Styles

Lever End Style “C”

Lever End Style “D”

Lever End Style “E”

How To Order

PTE 45 - 15 2 A - 103 B2

- Model Number: PTE = Low Profile Slide Potentiometer
- 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 (Refer to Drawings):
  - A • D
  - B • E
  - C
- Resistance Code (See Standard Resistance Table)
- Resistance Taper (See Taper Charts)
  - Taper Series followed by Curve Number

REV. 02/10

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