

*RoHS COMPLIANT

BOURNS®

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
Standard Resistance Tolerance... ± 20 %
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

Operational Life 100,000 cycles
TR Shift ± 15 %
Operating Temperature Range
..... -10 °C to $+55$ °C
Resistance to Solder Heat..... ± 5 %

Mechanical Characteristics

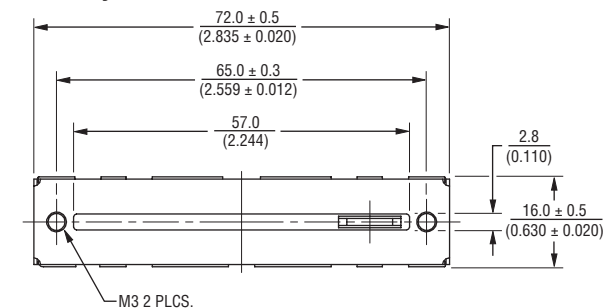
Mechanical Angle $300^\circ \pm 5^\circ$
Mechanical Travel..... Length ± 0.5 mm
Operating Force 50 gf
Stop Strength 5 kgf min.
Shaft Axial Force 5 kgf min.
Shaft Wobble.. $2(2 \times L/25)$ mm p-p max.
Soldering Condition
Manual $300^\circ\text{C} \pm 5^\circ\text{C}$ for 3 sec.
Wave $260^\circ\text{C} \pm 5^\circ\text{C}$ for 5 sec.
Wash Not recommended

Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

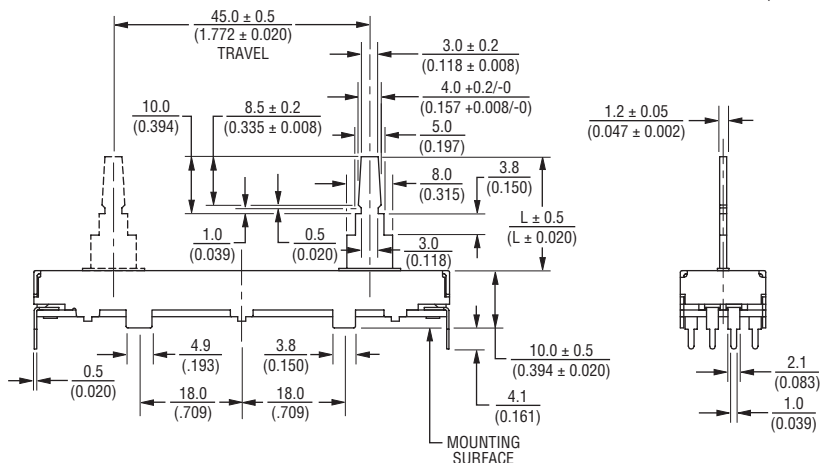
Product Dimensions

45 mm Length of Travel Lever End Style "B"

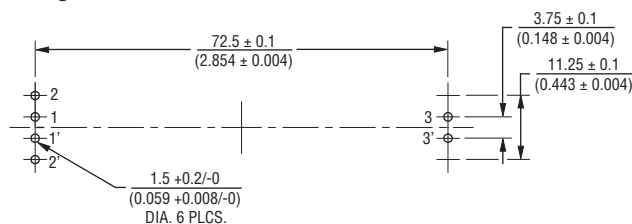


Lever Length
15.0 (.591)
20.0 (.787)

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

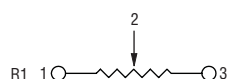


Mounting Hole Detail

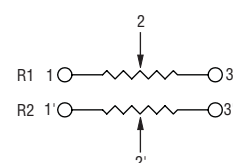


Schematics

Single Gang



Dual Gang



Applications

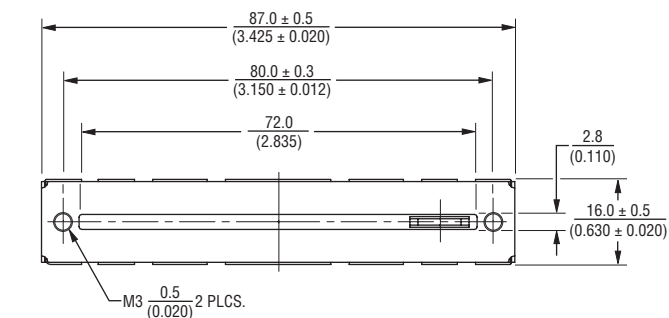
- Mixing consoles
- Drum machines
- Keyboards and synthesizers
- Equalizers

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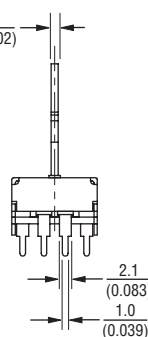
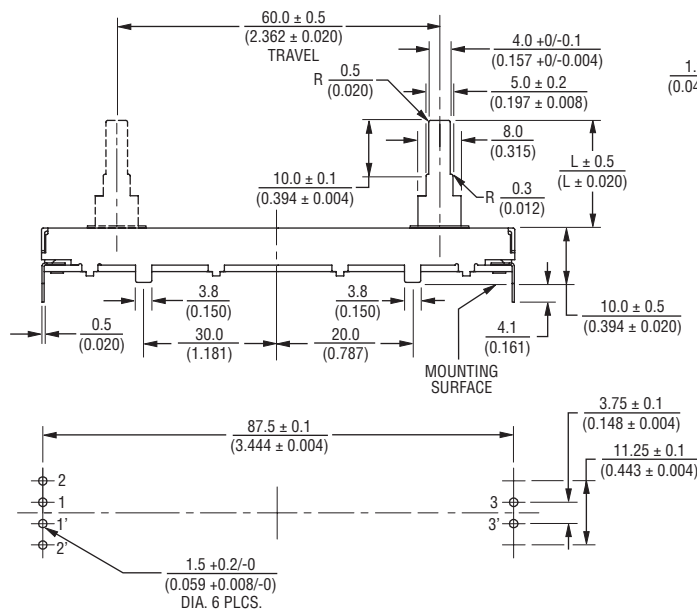
Product Dimensions

60 mm Length of Travel
Lever End Style "A"

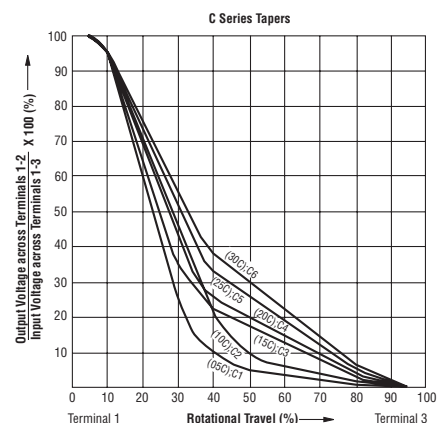
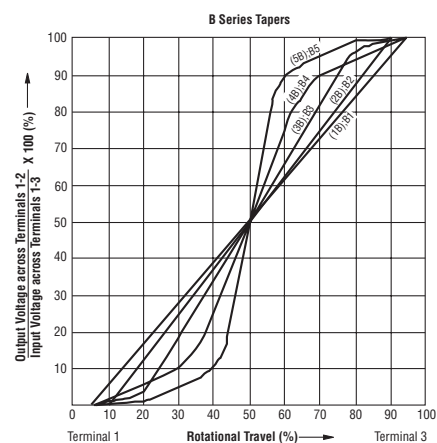
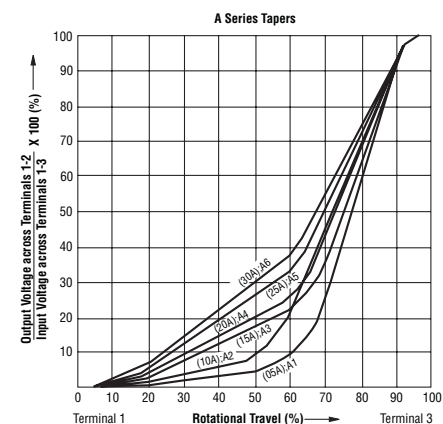


Lever Length
15.0 (.591)
20.0 (.787)

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$



Tapers



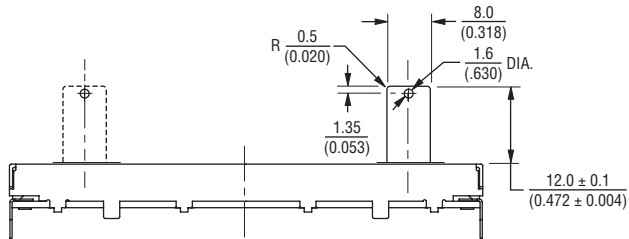
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

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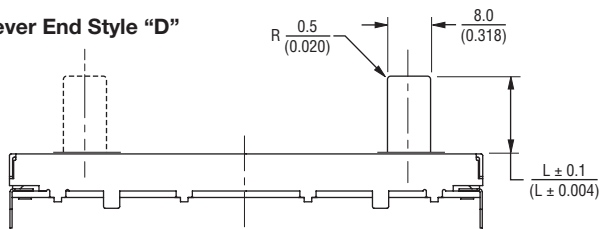
Additional Lever End Styles

Lever End Style "C"



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Lever End Style "D"

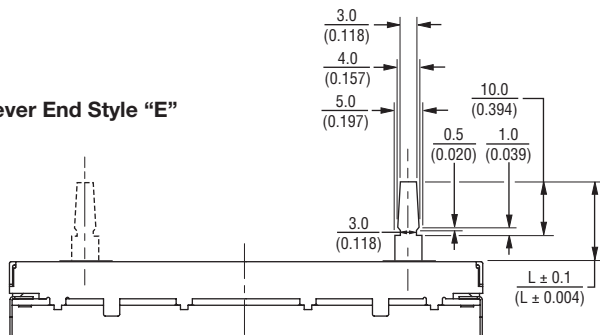


Lever Length

$\frac{12.8}{(.504)}$

$\frac{20.0}{(.787)}$

Lever End Style "E"



Lever Length

$\frac{15.0}{(.591)}$

$\frac{20.0}{(.787)}$

How To Order

PTE 45 - 15 2 A - 103 B2

Model Number _____
 Designator _____
 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