

*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 $+55^{\circ}\text{C}$
 Resistance to Solder Heat..... ± 5 %

Mechanical Characteristics

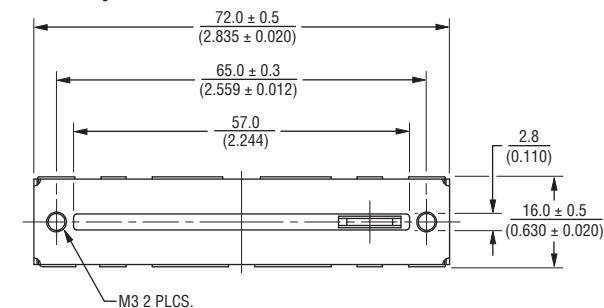
Mechanical Angle $300^{\circ} \pm 5^{\circ}$
 Mechanical Travel..... Length ± 0.5 mm
 Operating Force 50 gf
 Stop Strength 5 kgf min.
 Shaft Axial Force 5 kgf min.
 Shaft Wobble.. $2(2 \times L/25)$ mm p-p max.
 Soldering Condition
 Manual $300^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 3 sec.
 Wave $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ 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

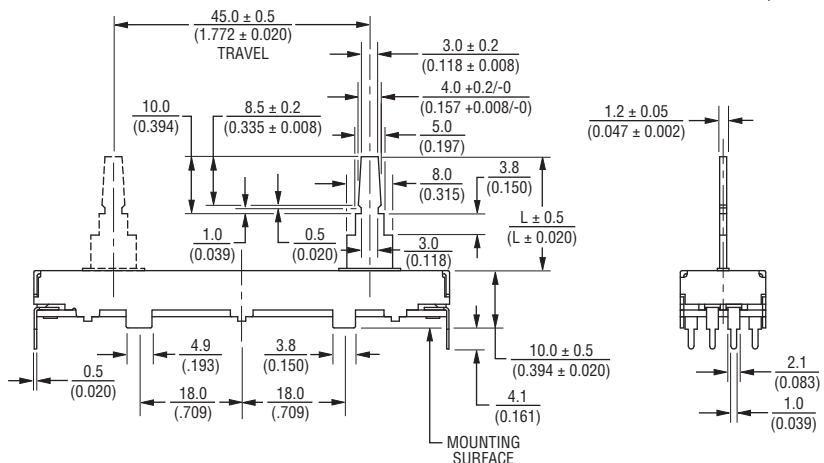
Product Dimensions

45 mm Length of Travel Lever End Style "B"

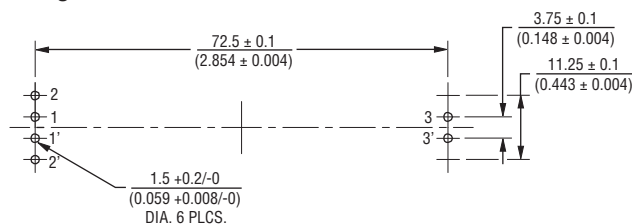


Lever Length
15.0 (.591)
20.0 (.787)

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

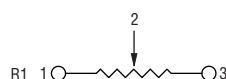


Mounting Hole Detail

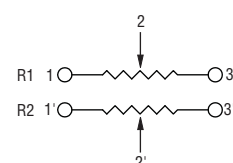


Schematics

Single Gang



Dual Gang



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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Applications

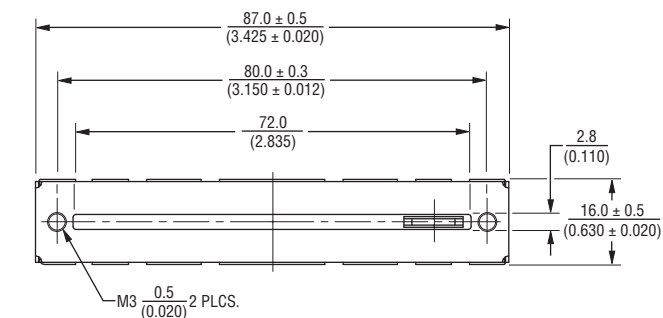
- Mixing consoles
- Drum machines
- Keyboards and synthesizers
- Equalizers

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Product Dimensions

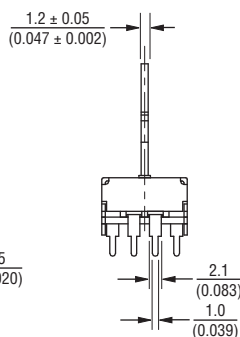
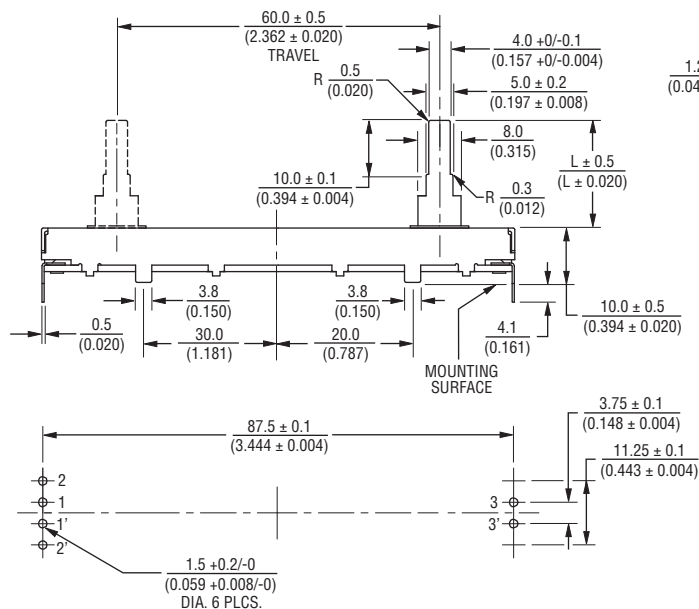
60 mm Length of Travel Lever End Style "A"



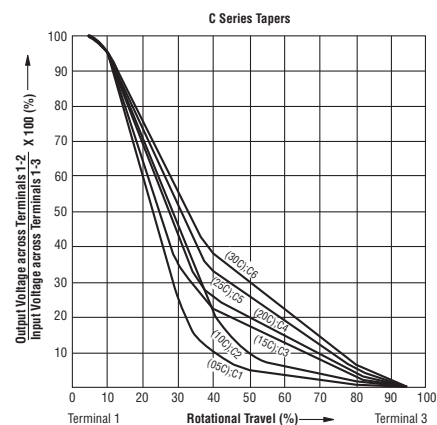
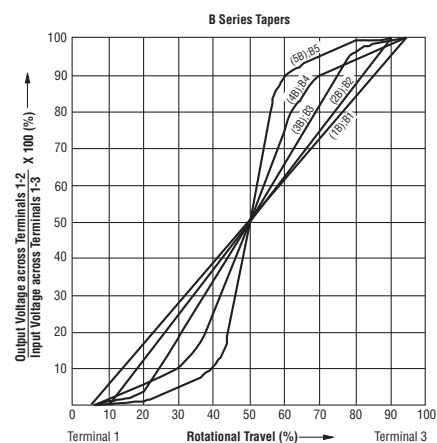
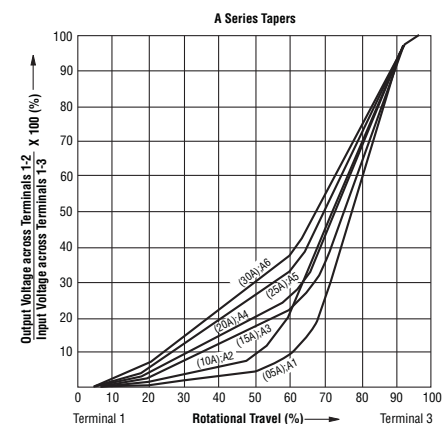
Lever Length

15.0
(.591)
20.0
(.787)

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



Tapers



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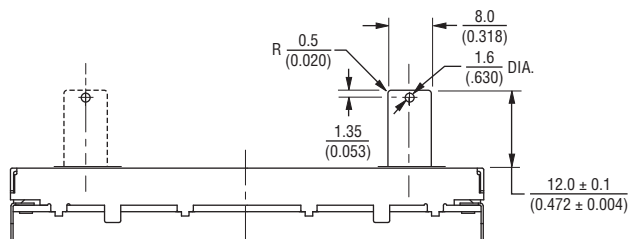
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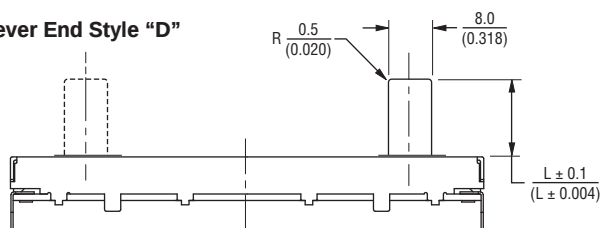
Additional Lever End Styles

Lever End Style "C"



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

Lever End Style "D"

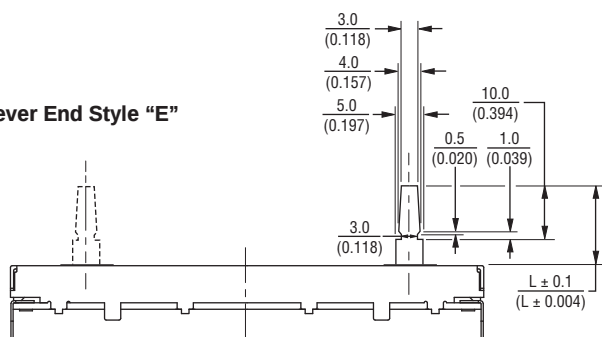


Lever Length

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

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

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

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REV. 10/19

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