



## 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  $\pm 2$  dB
- Various lever styles



## PTE Series Low Profile Slide Potentiometer

### Electrical Characteristics

Standard Resistance Range  
..... 1K ohms to 1 megohm  
Standard Resistance Tolerance...  $\pm 20$  %  
End Resistance ..... 2 ohms max.  
Insulation Resistance @ 100 VDC  
..... 100 megohms min.  
Dielectric Withstanding Voltage  
..... 250 VAC  
Tracking Error .....  $\pm 2$  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 .....  $\pm 15$  %  
Operating Temperature Range  
.....  $-10$  °C to  $+55$  °C  
Resistance to Solder Heat .....  $\pm 5$  %

### Mechanical Characteristics

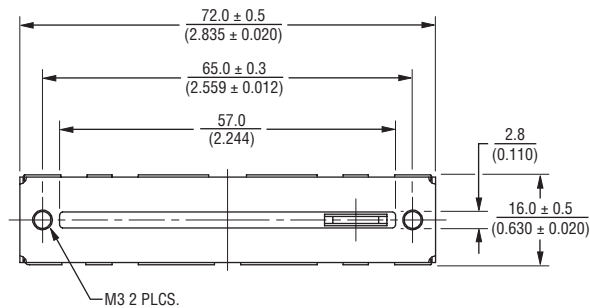
Mechanical Angle .....  $300 \pm 5$  °  
Mechanical Travel ..... Length  $\pm 0.5$  mm  
Operating Force ..... 50 gf  
Stop Strength ..... 5 kgf min.  
Shaft Axial Force ..... 5 kgf min.  
Shaft Wobble..  $2(2 \times L/25)$  mm p-p max.  
Soldering Condition  
Manual .....  $300$  °C  $\pm 5$  °C for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

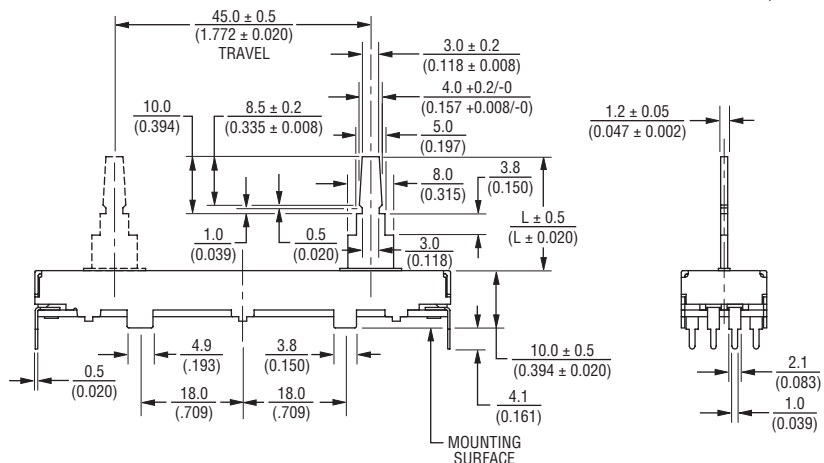
### Product Dimensions

#### 45 mm Length of Travel Lever End Style "B"

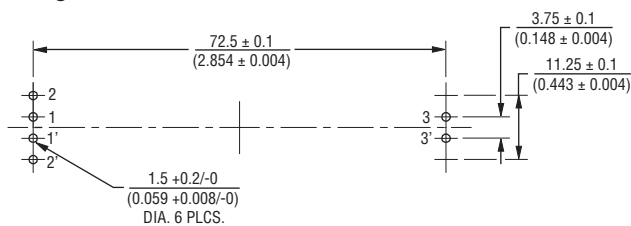


Lever Length
$15.0$ (.591)
$20.0$ (.787)

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

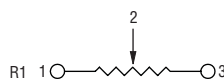


#### Mounting Hole Detail

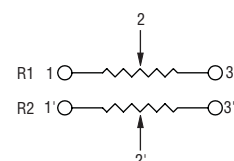


### Schematics

#### Single Gang



#### Dual Gang



\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex  
Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.

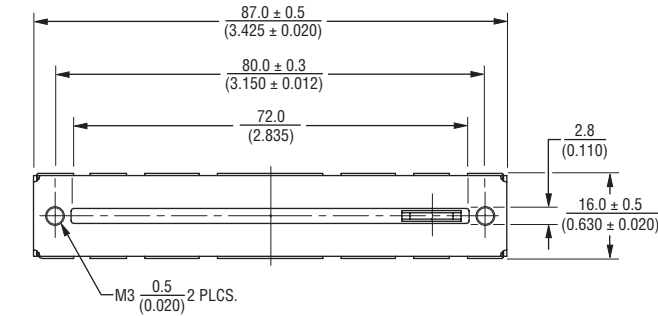
# Applications

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

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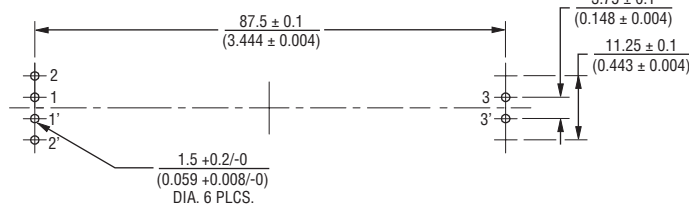
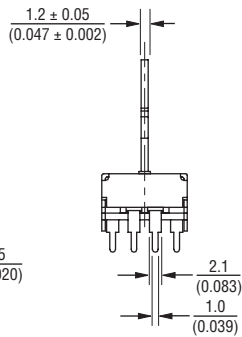
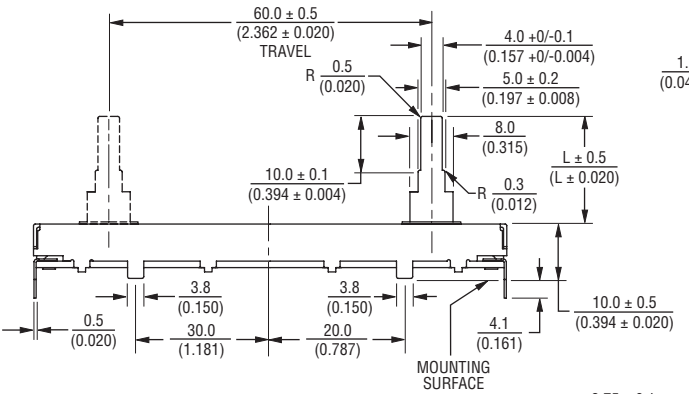
### Product Dimensions

60 mm Length of Travel  
Lever End Style "A"

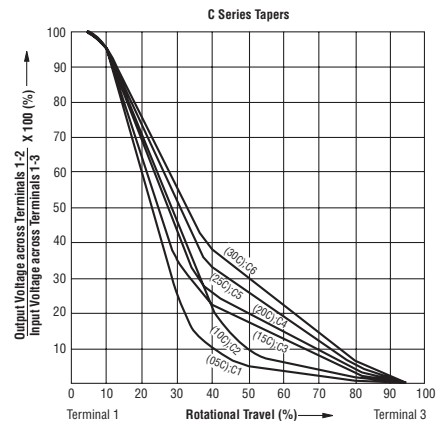
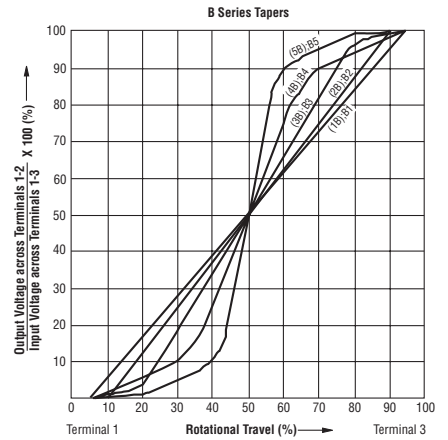
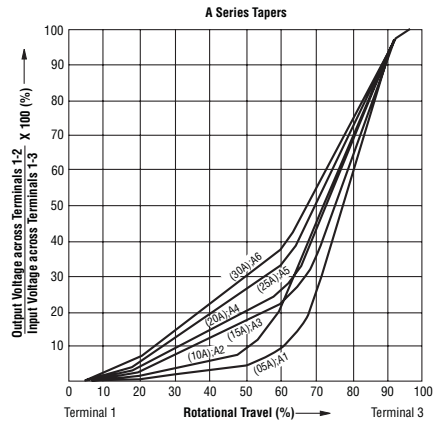


Lever Length	
15.0	(.591)
20.0	(.787)

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



### Tapers



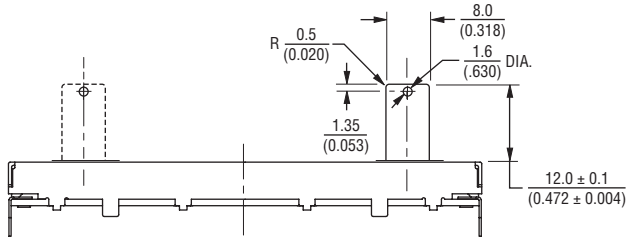
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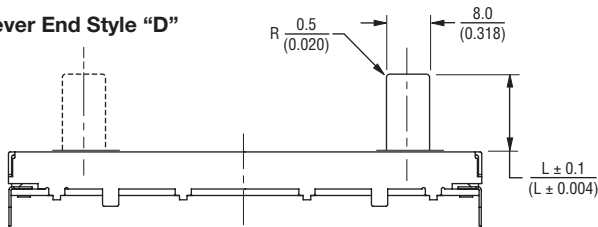
## Additional Lever End Styles

### Lever End Style "C"



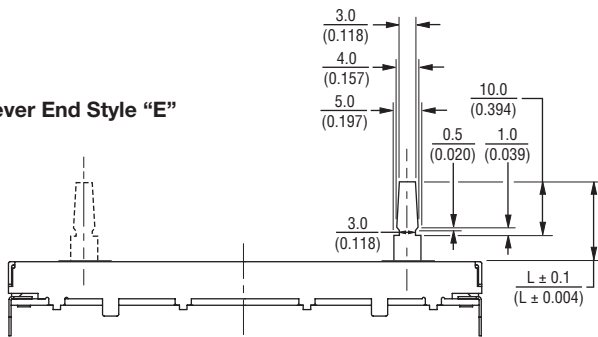
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

### 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

REV. 02/10

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