

### **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

### **Environmental Characteristics**

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

Slider Noise ...... 100 mV max.

### **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** 

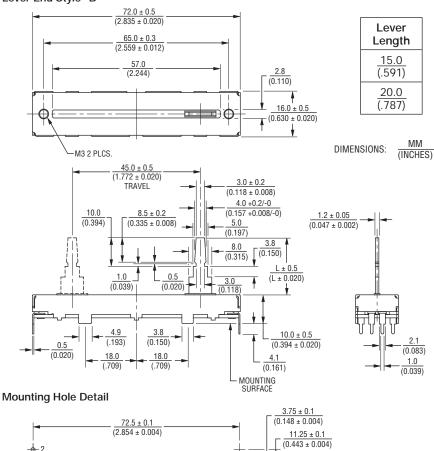
Manual .....300 °C ±5 °C for 3 sec. Wave ......260 °C ±5 °C for 5 sec. Wash ......Not recommended

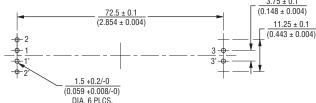
### Standard Resistance Table

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**

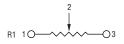
45 mm Length of Travel Lever End Style "B"

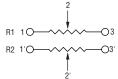




### **Schematics**

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.

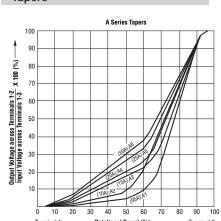
### **Applications**

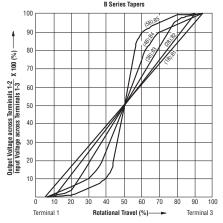
- Mixing consoles
- Drum machines
- Keyboards and synthesizers
- Equalizers

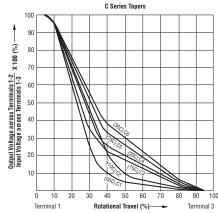
# PTE Series Low Profile Slide Potentiometer

# **BOURNS**®

#### **Product Dimensions Tapers** 60 mm Length of Travel Lever End Style "A" 100 90 Lever X 100 (%) -Length $\frac{80.0 \pm 0.3}{(3.150 \pm 0.012)}$ 70 15.0 S Terminals 1-2 Terminals 1-3 72.0 (2.835) 60 (.591)2.8 (0.110) 50 20.0 Output Voltage across Input Voltage across (.787)16.0 ± 0.5 $\frac{10.0 \pm 0.5}{(0.630 \pm 0.020)}$ Qθ MM DIMENSIONS: -M3 $\frac{0.5}{(0.020)}$ 2 PLCS. (INCHES) 4.0 +0/-0.1 TRAVEL (0.157 + 0/-0.004)1.2 ± 0.05 R $\frac{0.5}{(0.020)}$ 5.0 ± 0.2 $\overline{(0.047 \pm 0.002)}$ (0.197 ± 0.008) 100 8.0 (0.315) L ± 0.5 $10.0 \pm 0.1$ (L ± 0.020) 0.3 Output Voltage across Terminals 1-2 X 100 (%) Input Voltage across Terminals 1-3 $(0.394 \pm 0.004)$ (0.012) 3.8 3.8 50 $10.0 \pm 0.5$ (0.150)(0.150)40 30.0 20.0 (0.083)(0.020) (0.161) MOUNTING SURFACE (0.039)3.75 ± 0.1 $\overline{(0.148 \pm 0.004)}$ $\frac{87.5 \pm 0.1}{(3.444 \pm 0.004)}$ 11.25 ± 0.1 $(0.443 \pm 0.004)$ Terminal 1 1.5 +0.2/-0 (0.059 +0.008/-0) DIA. 6 PLCS.







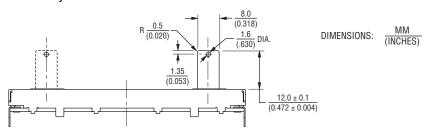
# **PTE Series Low Profile Slide Potentiometer**

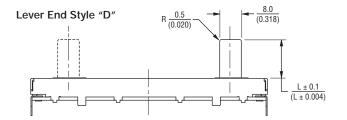
### BOURNS

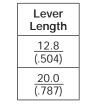
How To Order

### **Additional Lever End Styles**

Lever End Style "C"





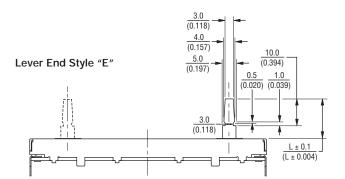


Lever

Length

15.0 (.591)

20.0 (.787)



PTE 45 - 15 2 A - 103	B2
Model Number — Designator PTE = Low Profile Slide Potentiometer	
Length of Travel ————————————————————————————————————	
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) ————————————————————————————————————	╛

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