



## Features

- Carbon element
- Assortment of resistance tapers
- 45 mm, 60 mm & 100 mm travel lengths
- Single and dual gang elements
- Long operational life
- Tracking error within  $\pm 2$  dB

## Applications

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

# PTF Series Long Life Slide Potentiometer

### Electrical Characteristics

Standard Resistance Range	.....1K ohms to 1 megohm
Standard Resistance Tolerance	..... $\pm 20$ %
End Resistance	.....1 ohm max.
Insulation Resistance @ 500 VDC	.....100 megohms min.
Dielectric Withstanding Voltage	.....1000 VAC
Tracking Error	..... $\pm 2$ dB
Standard Taper	.....Linear, Audio
Power Rating - Linear	
45 mm	.....0.25 watt
60 & 100 mm	.....0.5 watt
Power Rating - Audio	
45 mm	.....0.125 watt
60 & 100 mm	.....0.25 watt
Slider Noise	.....60 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 Travel	.....See Product Dimensions
Operating Force	.....50 gf
Stop Strength	.....5 kgf min.
Shaft Axial Force	.....10 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

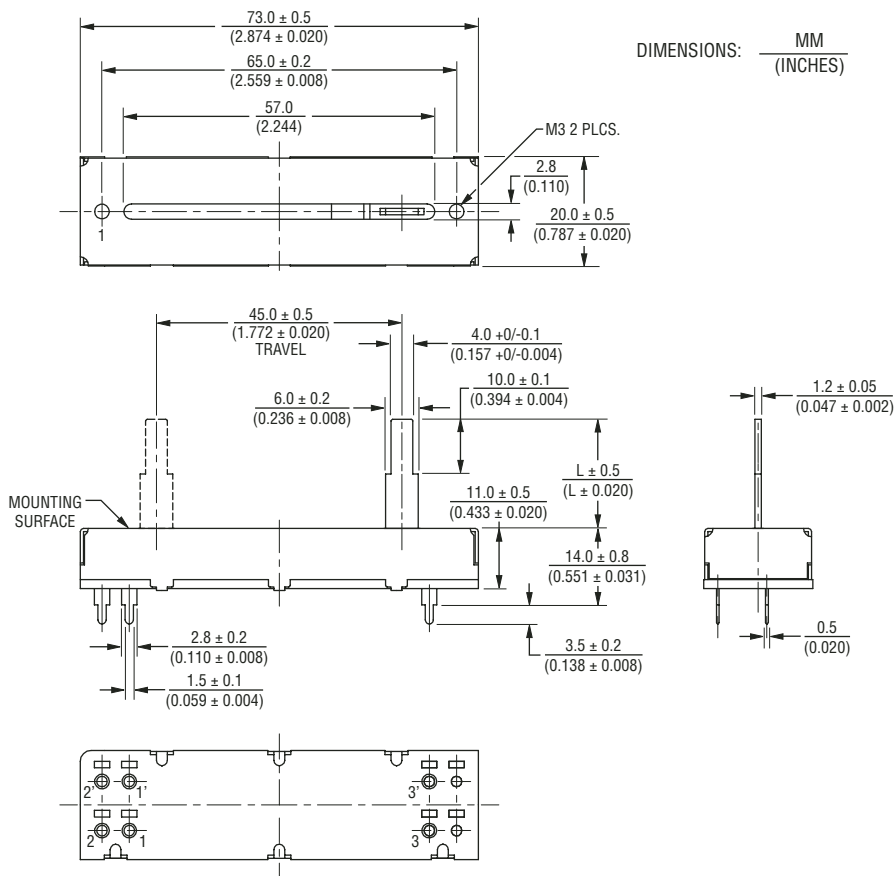
### How To Order

Model Number Designator	PTF = Long Life Slide Potentiometer
Length of Travel	45 = 45 mm 60 = 60 mm 01 = 100 mm
Lever Length	15 = 15 mm 20 = 20 mm
No. of Gangs	1 = Single Gang 2 = Dual Gang
Lever End Style	A = Metal Lever (Refer to Drawing) B = Metal Lever (Refer to Drawing)
Resistance Code	(See Standard Resistance Table)
Resistance Taper	(See Taper Charts)
Taper Series	followed by Curve Number

**PTF 45 - 15 2 A - 103 B2**

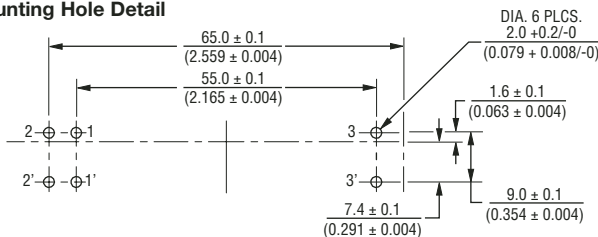
### Product Dimensions

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



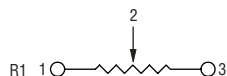
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

### Mounting Hole Detail

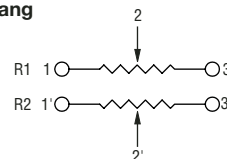


### Schematics

#### Single Gang



#### Dual Gang



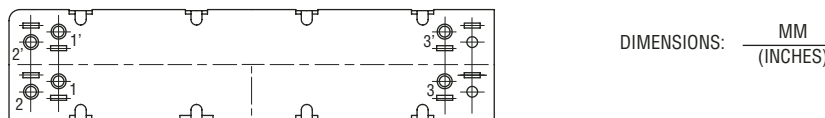
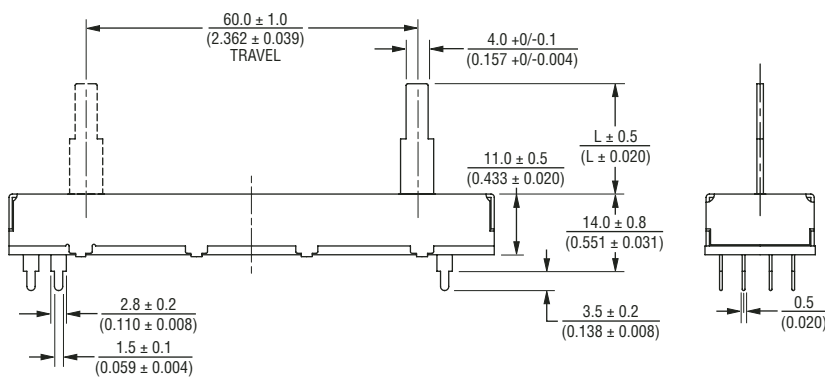
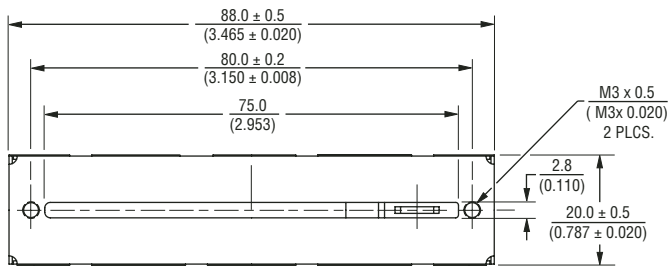
\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

# PTF Series Long Life Slide Potentiometer

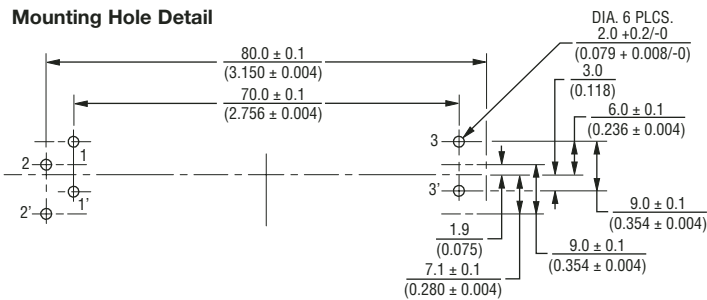
**BOURNS®**

## Product Dimensions

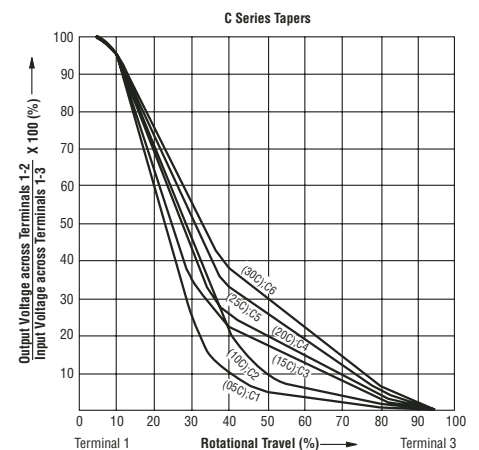
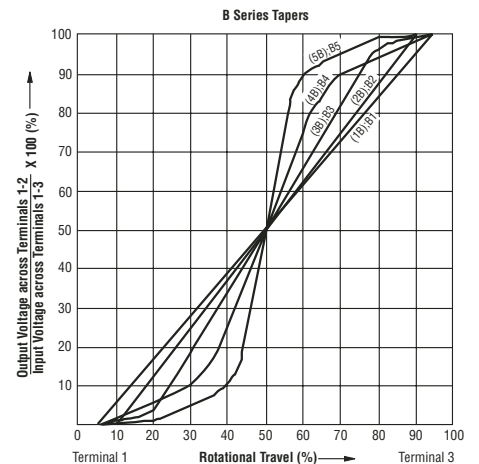
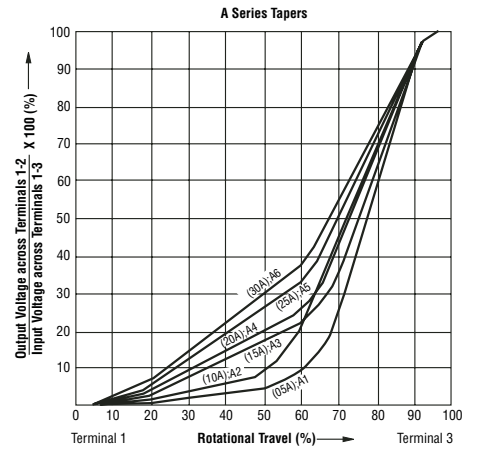
60 mm Length of Travel  
Lever End Style "A"



## Mounting Hole Detail



## Tapers



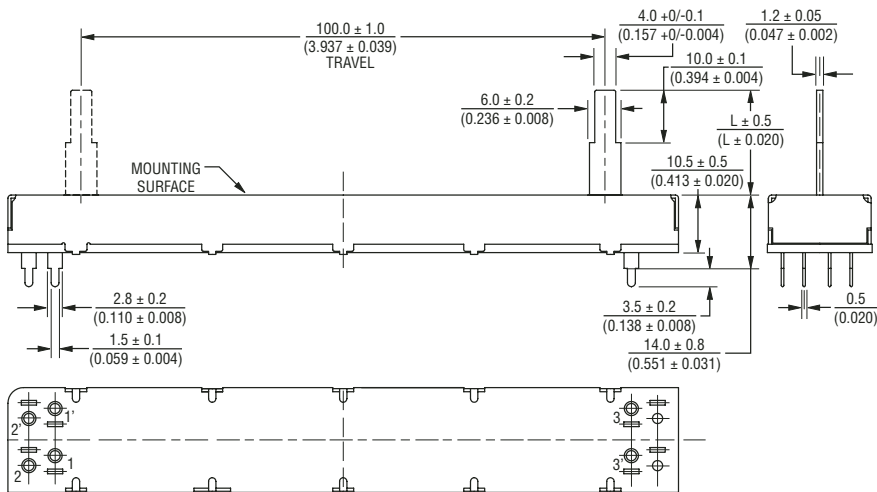
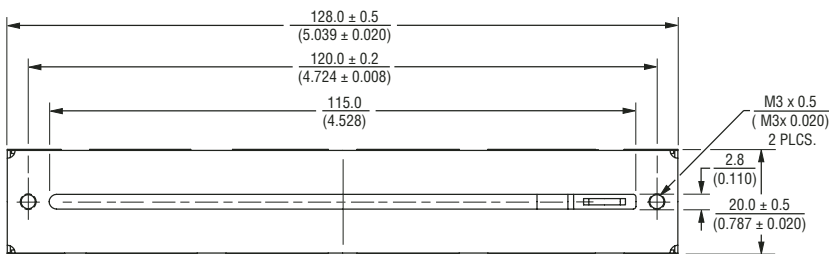
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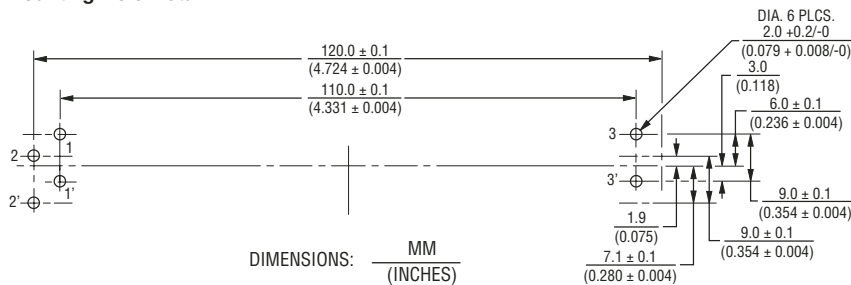


## Product Dimensions

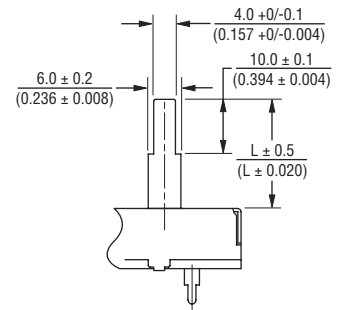
100 mm Length of Travel  
Lever End Style A



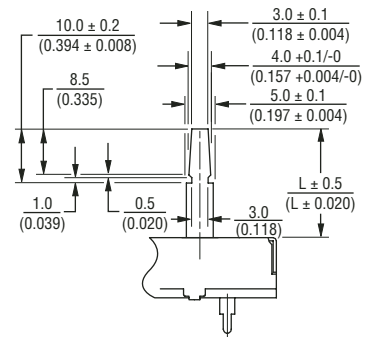
## Mounting Hole Detail



## Lever End Styles



LEVER END STYLE "A"



LEVER END STYLE "B"

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

## 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



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