



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Long life carbon element
- Assortment of resistance tapers
- 45 mm, 60 mm and 100 mm travel lengths
- Single and dual gang elements
- Long operational life
- Tracking error within ± 2 dB



PTF Series Long Life Slide Potentiometer

Electrical Characteristics

Standard Resistance Range	..... 1K ohms to 1 megohm
Standard Resistance Tolerance	... ± 20 %
End Resistance	..... 1 ohm max.
Insulation Resistance @ 500 VDC	..... 100 megohms min.
Dielectric Withstanding Voltage	..... 1000 VAC
Tracking Error ± 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

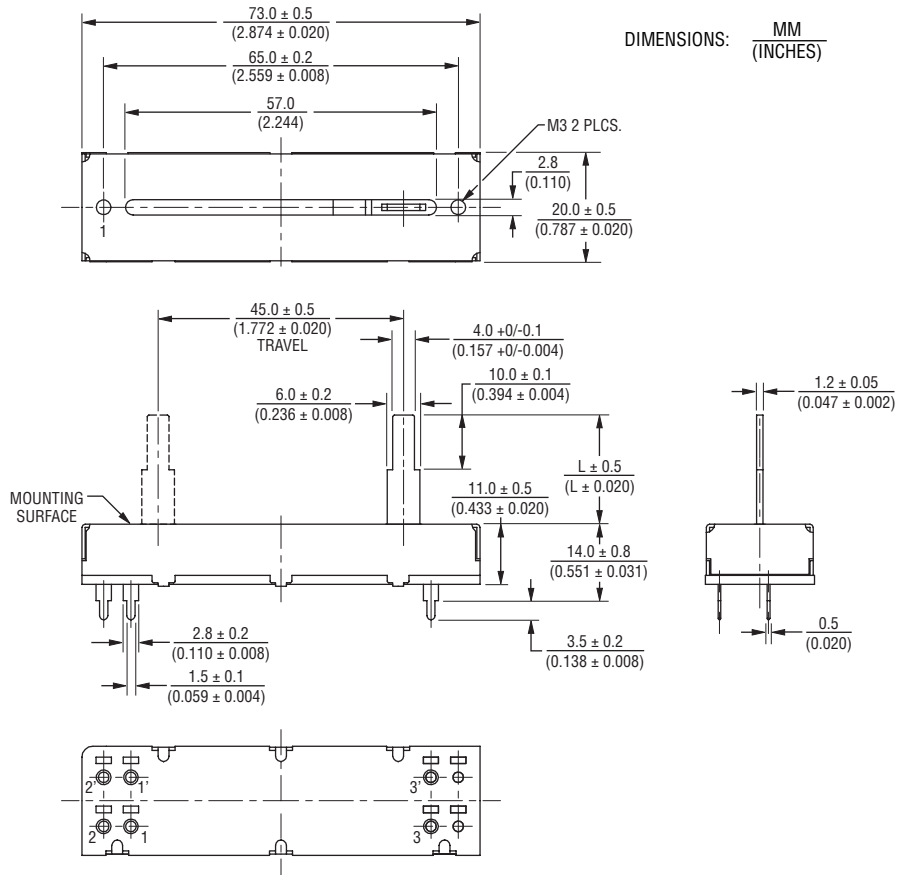
Operational Life	..... 100,000 cycles
TR Shift ± 15 %
Operating Temperature Range	..... -10 °C to $+55$ °C
Resistance to Solder Heat ± 5 %

Mechanical Characteristics

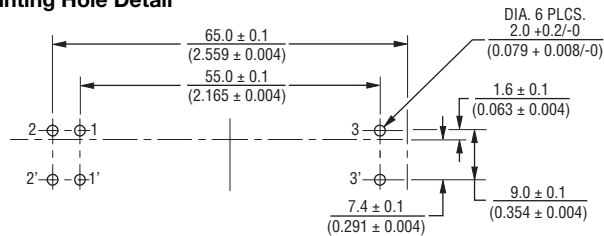
Mechanical Travel	..... See Product Dimensions
Operating Force	..... 50 gf
Stop Strength	..... 5 kgf min.
Shaft Axial Force	..... 10 kgf min.
Shaft Wobble	.. $2(2 \times L/25)$ mm p-p max.
Soldering Condition	
Manual	..... 300 °C ± 5 °C for 3 sec.
Wave	..... 260 °C ± 5 °C for 5 sec.
Wash	..... Not recommended

Product Dimensions

45 mm Length of Travel Lever End Style "A"

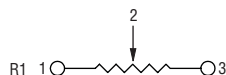


Mounting Hole Detail

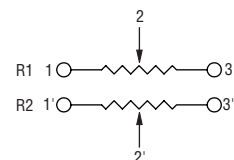


Schematics

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

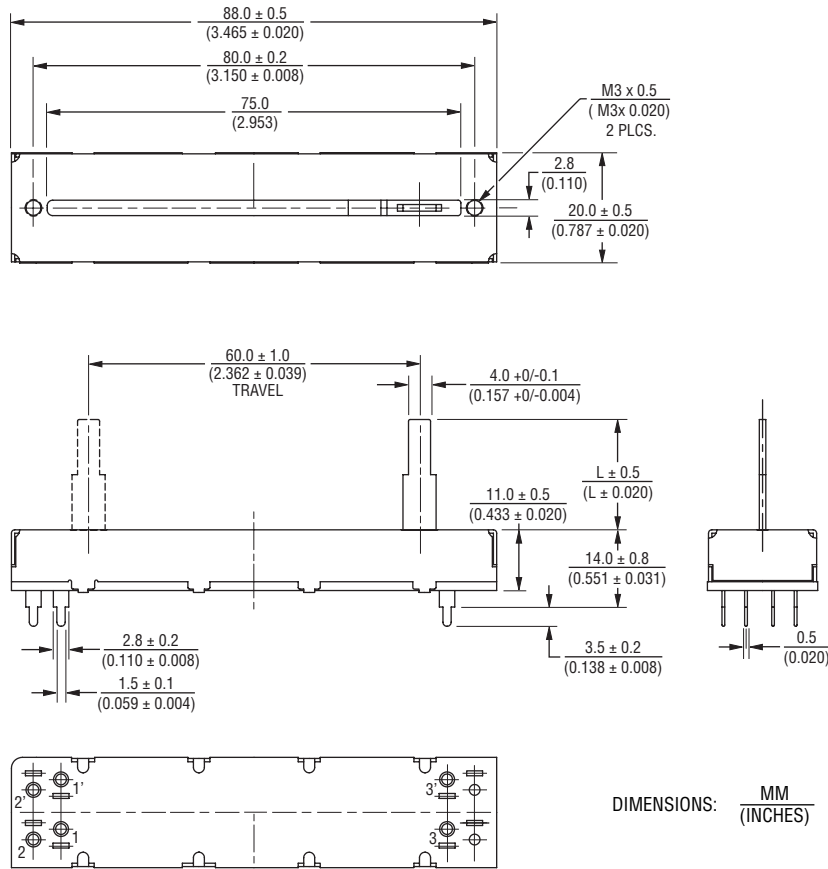
- Mixing consoles
- Drum machines
- Keyboards and synthesizers
- Equalizers

PTF Series Long Life Slide Potentiometer

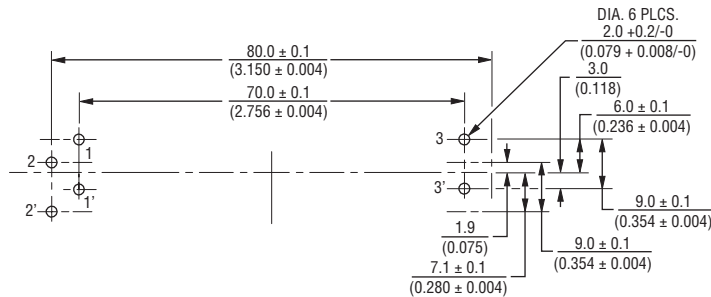
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Product Dimensions

60 mm Length of Travel
Lever End Style "A"



Mounting Hole Detail



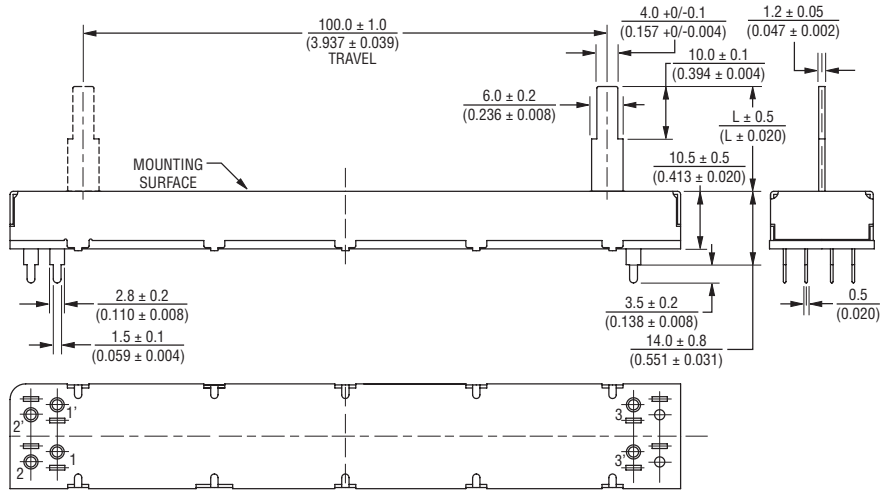
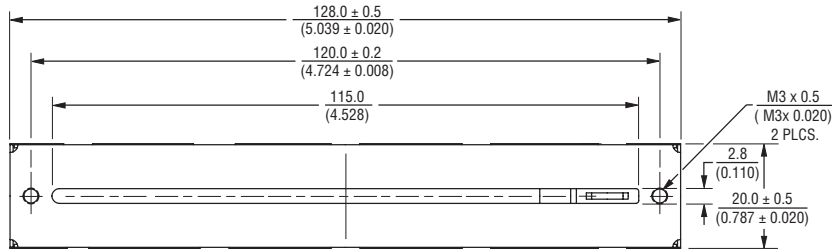
Specifications are subject to change without notice.
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PTF Series Long Life Slide Potentiometer

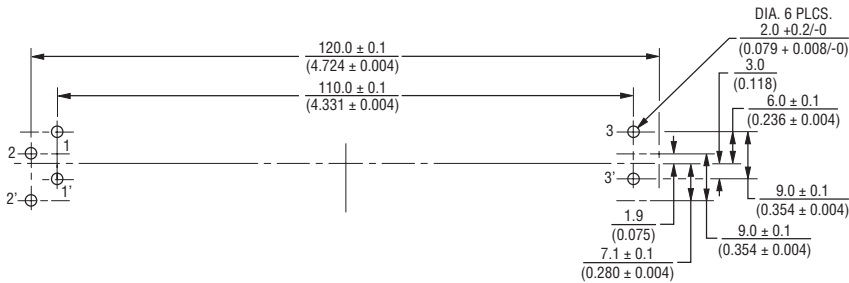
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Product Dimensions

100 mm Length of Travel
Lever End Style "A"



Mounting Hole Detail



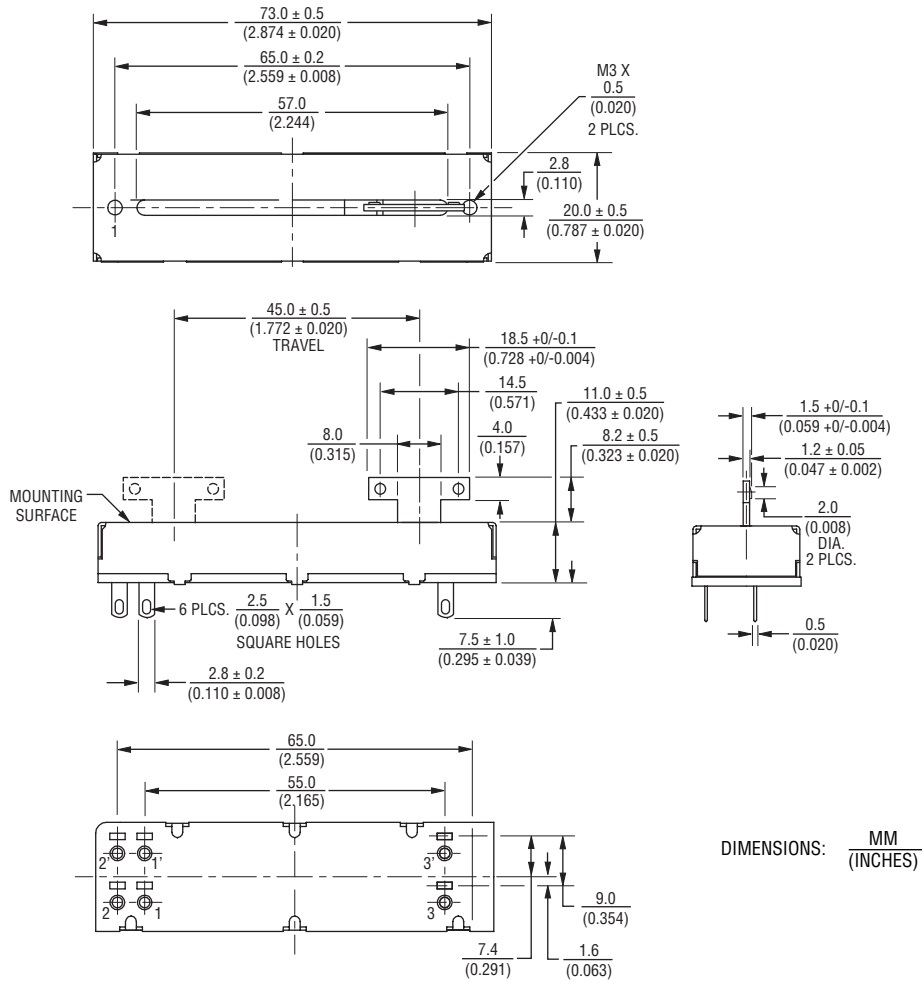
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

PTF Series Long Life Slide Potentiometer

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Product Dimensions

45 mm Length of Travel
Lever End Style "T"

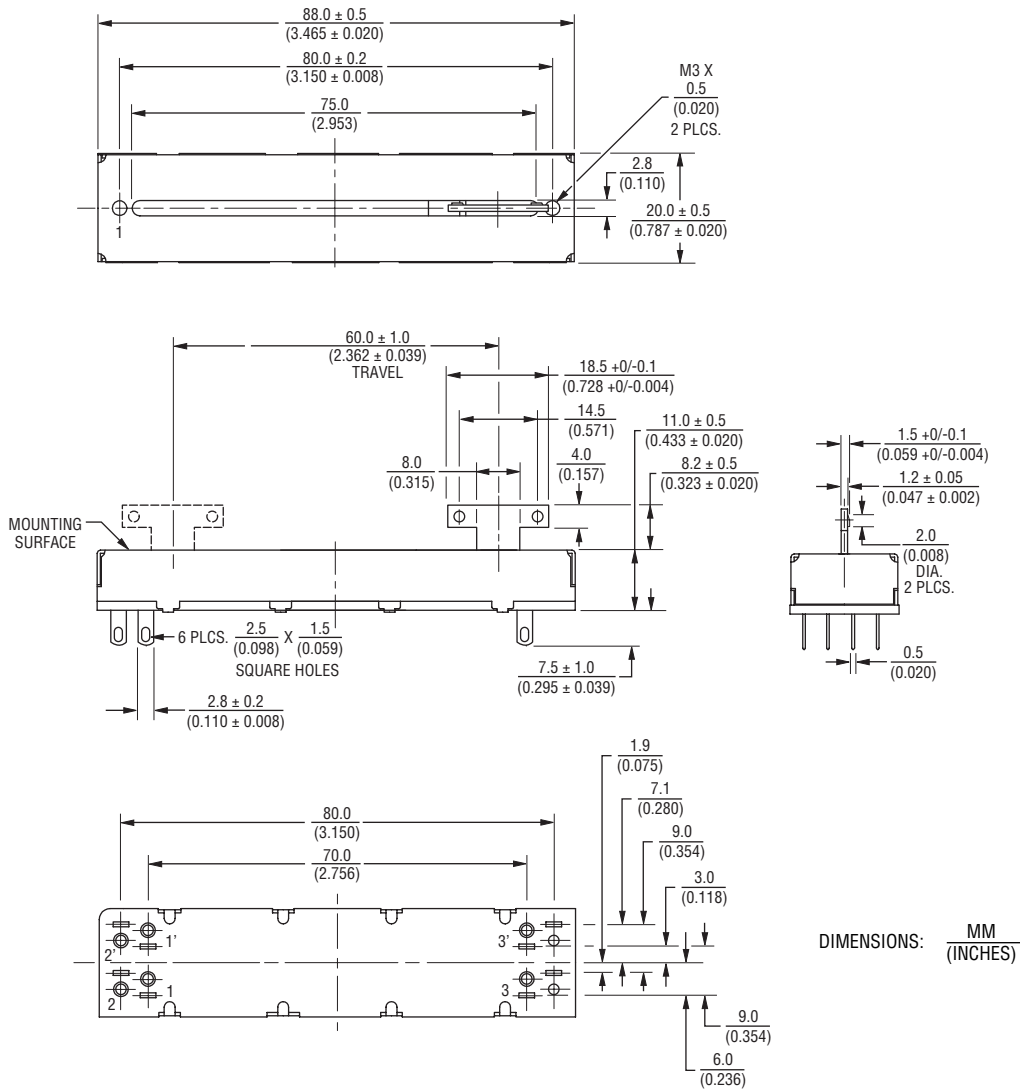


PTF Series Long Life Slide Potentiometer

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Product Dimensions

60 mm Length of Travel
Lever End Style "T"



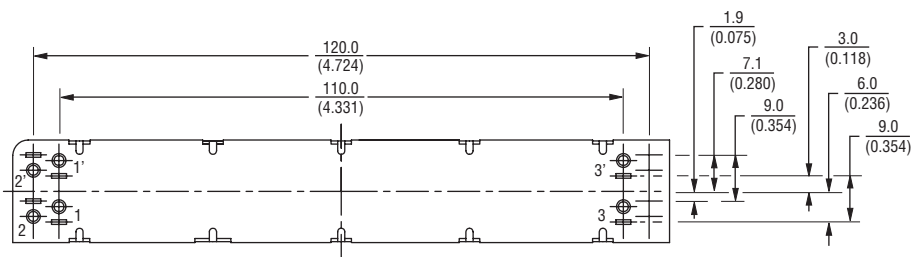
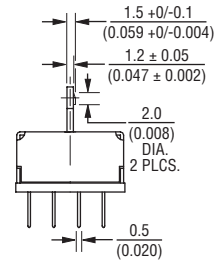
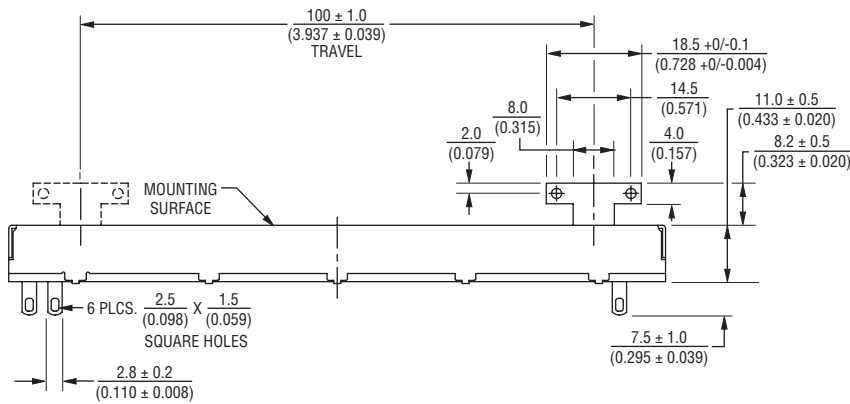
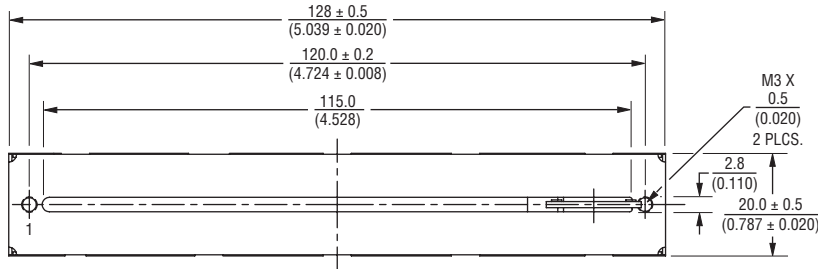
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

PTF Series Long Life Slide Potentiometer

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Product Dimensions

100 mm Length of Travel
Lever End Style "T"

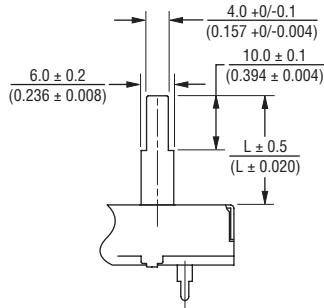


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

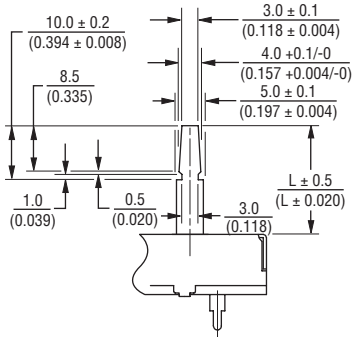
PTF Series Long Life Slide Potentiometer

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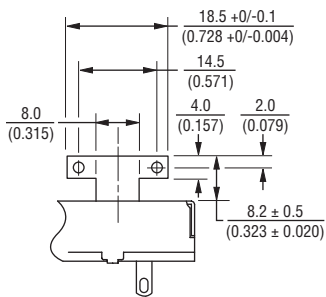
Lever End Styles



LEVER END STYLE "A"



LEVER END STYLE "B"



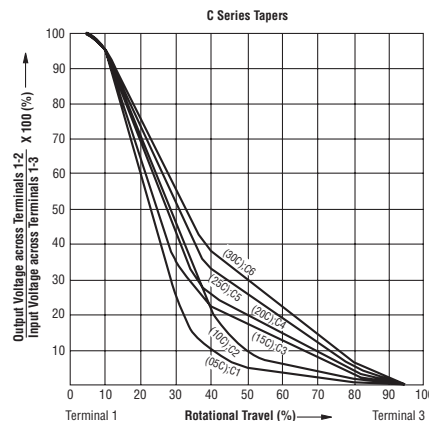
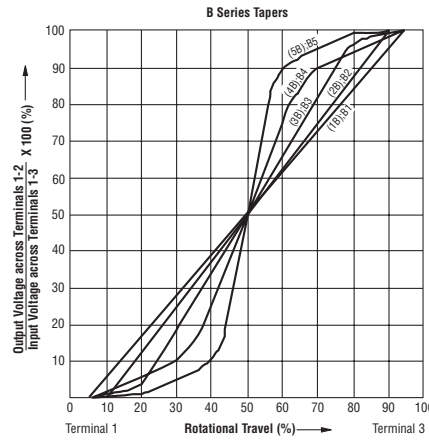
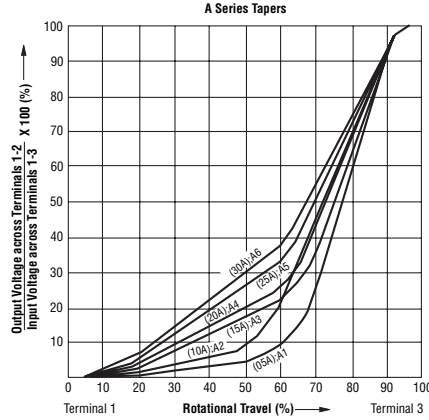
LEVER END STYLE "T"

Lever Length (A & B Lever Only)

15.0
(.591)

20.0
(.787)

Tapers



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

How To Order

PTF 45 - 15 2 A - 103 B2

- Model Number
- Designator
PTF = Long Life Slide Potentiometer
- Length of Travel
45 = 45 mm
60 = 60 mm
01 = 100 mm
- Lever Length
08 = 8.2 mm ("T" Lever Only)
15 = 15 mm ("A" & "B" Lever Only)
20 = 20 mm ("A" & "B" Lever Only)
- No. of Gangs
1 = Single Gang with PC Pins
2 = Dual Gang with PC Pins
3 = Single Gang with Solder Lugs
4 = Dual Gang with Solder Lugs
- Lever End Style
A = Metal Lever (Refer to Drawing)
B = Metal Lever (Refer to Drawing)
T = Metal Lever (Refer to Drawing)
- Resistance Code
(See Standard Resistance Table)
- Resistance Taper (See Taper Charts)
Taper Series followed by Curve Number