



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

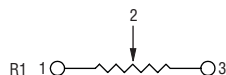
45 mm Length of Travel Lever End Style "A"



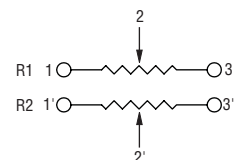
Mounting Hole Detail

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

BOURNS®

Product Dimensions

60 mm Length of Travel
Lever End Style "A"



Mounting Hole Detail



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

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.
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PTF Series Long Life Slide Potentiometer

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Product Dimensions

100 mm Length of Travel
Lever End Style "T"



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

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