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 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

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

**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

**Product Dimensions**

**45 mm Length of Travel**

**Lever End Style “A”**

**Mounting Hole Detail**

**Schematics**

**Single Gang**

**Dual Gang**

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

PTF Series Long Life Slide Potentiometer

Product Dimensions
60 mm Length of Travel
Lever End Style “A”

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PTF Series Long Life Slide Potentiometer

Product Dimensions

60 mm Length of Travel
Lever End Style “T”

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PTF Series Long Life Slide Potentiometer

Product Dimensions

100 mm Length of Travel
Lever End Style “T”

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PTF Series Long Life Slide Potentiometer

Lever End Styles

LEVER END STYLE “A”

LEVER END STYLE “B”

LEVER END STYLE “T”

Tapers

A Series Tapers

B Series Tapers

C Series Tapers

Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>102</td>
</tr>
<tr>
<td>2,000</td>
<td>202</td>
</tr>
<tr>
<td>5,000</td>
<td>502</td>
</tr>
<tr>
<td>10,000</td>
<td>103</td>
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<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

How To Order

Model Number Designation
PTF = Long Life Slide Potentiometer

Length of Travel
45 = 45 mm
60 = 60 mm
91 = 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

Typical Part Marking

MARKING IN BLACK INK.

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