

Features

- Carbon element
- Metal housing
- 45-100 mm travel
- Single and dual gang
- Dust cover option
- RoHS compliant*

BOURNS® PRO AUDIO

PTB Series - Low Profile Slide Potentiometer

Electrical Characteristics

Taper..... Linear, audio
Standard Resistance Range
.....5K ohms to 200K ohms
Standard Resistance Tolerance.....±20 %
Residual Resistance
.....500 ohms or 1 % max.
Insulation Resistance
..... Min. 100 megohms at 250 V DC

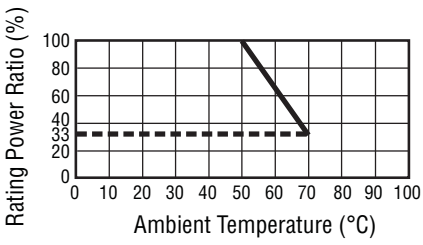
Environmental Characteristics

Operating Temperature
.....-10 °C to +60 °C
Power Rating, Linear
45 mm ....0.125 W (0.06 W Dual Gang)
60 mm .....0.25 W (0.125 W)
100 mm ..... 0.5 W (0.5 W)
Power Rating, Audio
45 mm ..0.025 W (0.015 W Dual Gang)
60 mm .....0.25 W (0.125 W)
100 mm .....0.25 W (0.25 W)
Maximum Operating Voltage - Linear
45 mm ..... 350 VDC
60-100 mm..... 500 VDC
Maximum Operating Voltage - Audio
45 mm ..... 250 VDC
60-100 mm Travel ..... 350 VDC
Withstand Voltage, Audio
..... 1 Min. at 500 V AC
Tracking Error..... 3 dB at 50 % of travel

Mechanical Characteristics

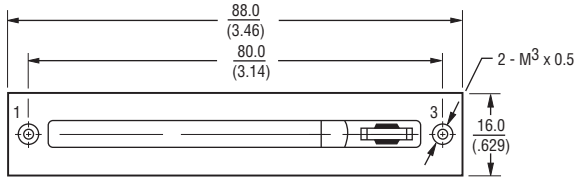
Operating Force ..... 10 to 100 g-cm
Stop Strength .....5 kg-cm min.
Sliding Life.....15,000 cycles
Soldering Condition
.....300°C max. within 3 seconds
Travel 45, 60, 100mm

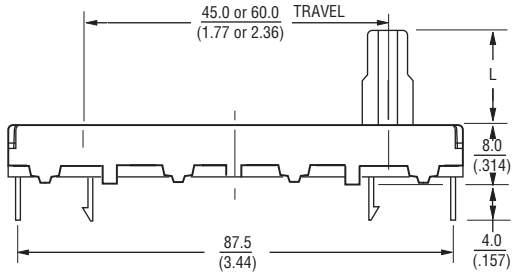
Derating Curve

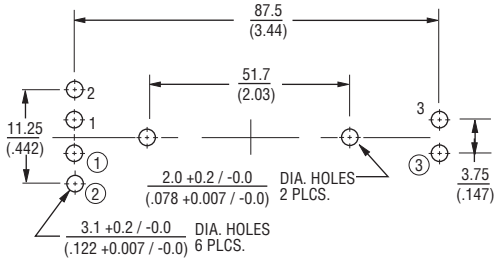


Product Dimensions

PTB45 and PTB60

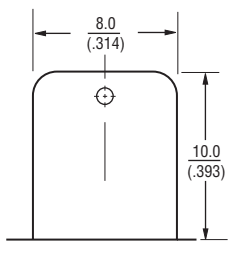






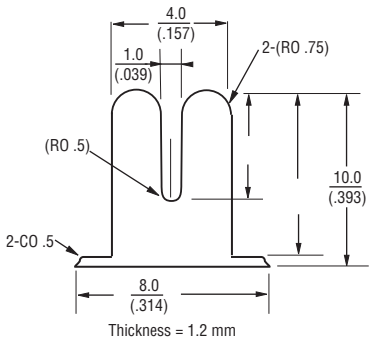
Numbers ①, ② and ③ for Dual Gang Versions

Lever Style
BP Metal Lever



Thickness = 1.2 mm

AP Metal Lever



Thickness = 1.2 mm

DIMENSIONS: MM / (INCHES)

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

Applications

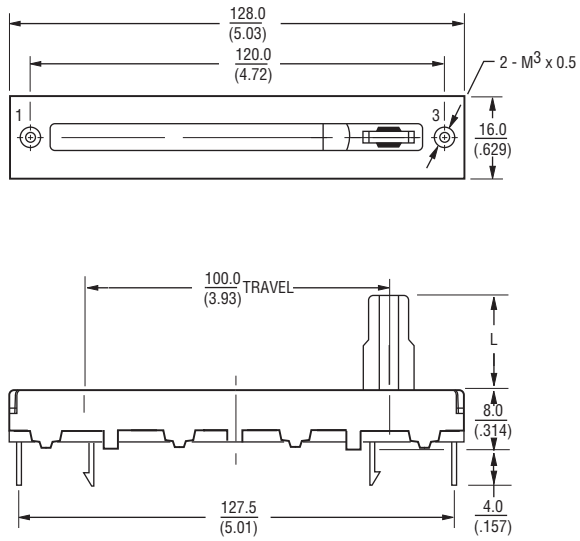
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

PTB Series - Low Profile Slide Potentiometer

BOURNS®

Product Dimensions

PTB01



Numbers ①, ② and ③ for Dual Gang Versions

DIMENSIONS: MM / (INCHES)

How To Order

PTB 01 4 3 - 2 0 10 BP A 102

Model

Stroke Length
- 45 = 45 mm
- 60 = 60 mm
- 01 = 100 mm

Dust Cover Option
- 4 = No Dust Cover
- 5 = Rubber Dust Cover

No. of Gangs
- 3 = Single Gang
- 4 = Dual Gang

Pin Style
- 2 = PC Pins Down Facing

No Detent

Standard Lever Length
- 10 = 10 mm

Lever Style
- BP = Metal Lever (Refer to Drawing)
- AP = Metal Lever (Refer to Drawing)

Resistance Taper
- A = Audio Taper
- B = Linear Taper

Resistance Code (See Table)

Other styles available.

Standard Resistance Table

Resistance (Ohms)	Resistance Code
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204

REV. 01/14

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