



**THE DATASHEET OF  
PTB0143-2010BPA103**





### Features

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



## 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

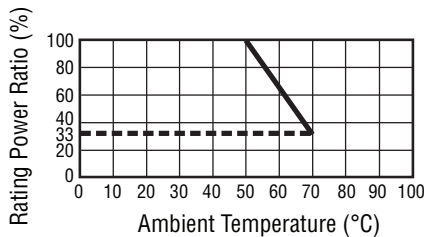
### Environmental Characteristics

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  
 Moisture Sensitivity Level .....1  
 ESD Classification (HBM) .....N/A

### Mechanical Characteristics

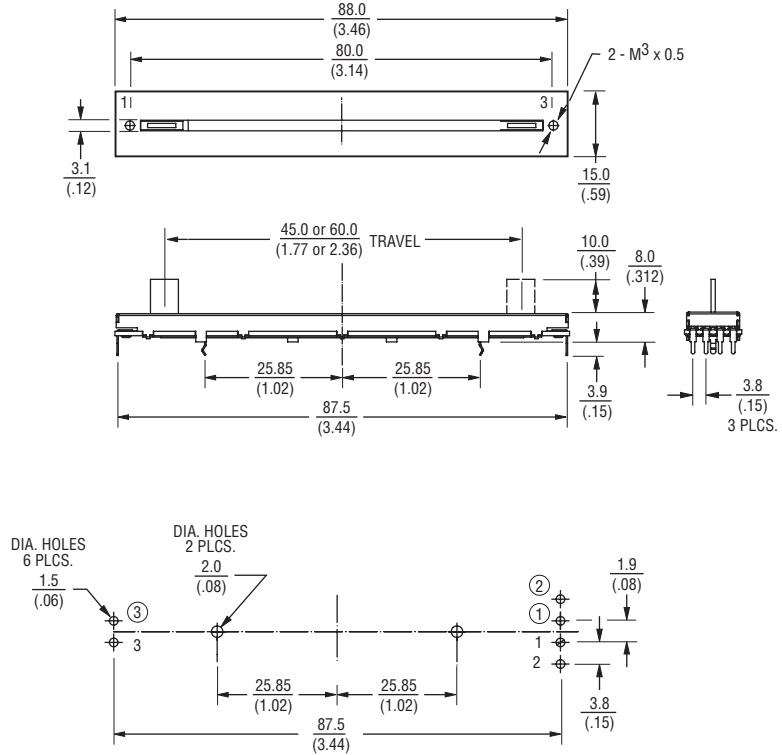
Operating Force .....10 to 100 gf  
 Stop Strength .....5 kgf min.  
 Sliding Life.....15,000 cycles  
 Soldering Condition  
 .....300 °C max. within 3 seconds  
 Travel .....45, 60, 100 mm

### Derating Curve



### Product Dimensions

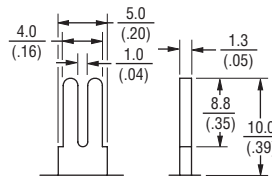
#### PTB45 and PTB60



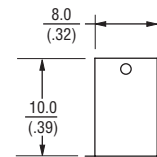
Numbers ①, ② and ③ for Dual Gang Versions

### Lever Styles

#### AP Metal Lever



#### BP Metal Lever



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



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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## Applications

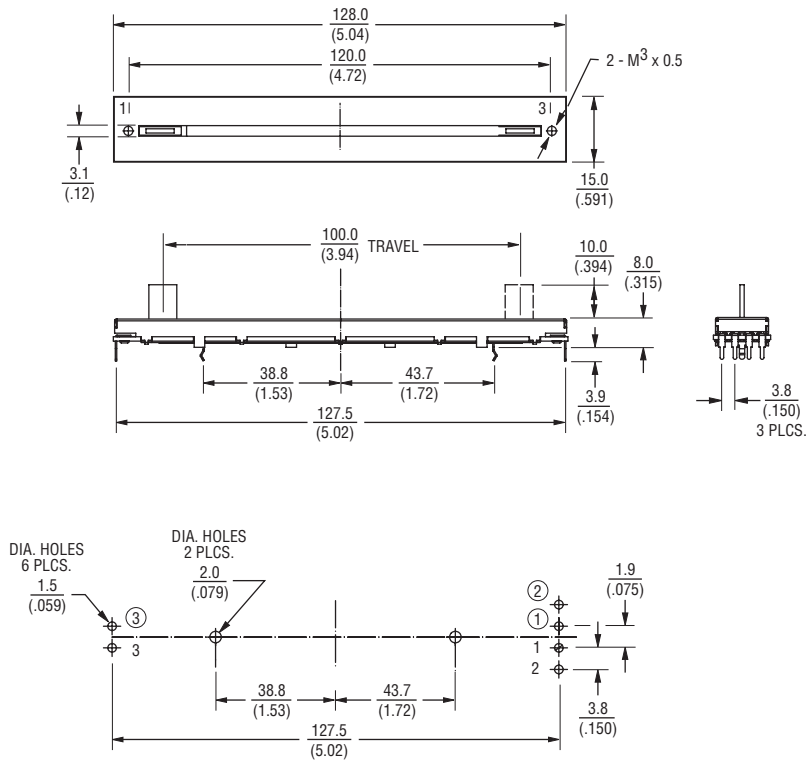
- Audio/TV sets
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

# PTB Series - Low Profile Slide Potentiometer

# BOURNS®

## Product Dimensions

PTB100



Numbers ①, ② and ③ for Dual Gang Versions

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

## Schematics



## 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. 08/20

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