



## 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

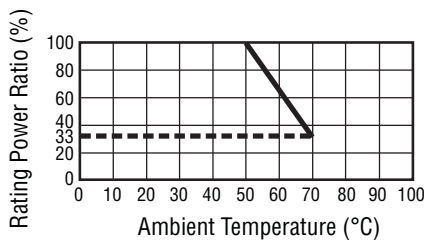
### Environmental Characteristics

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

### 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

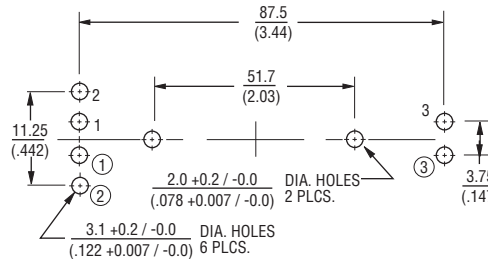
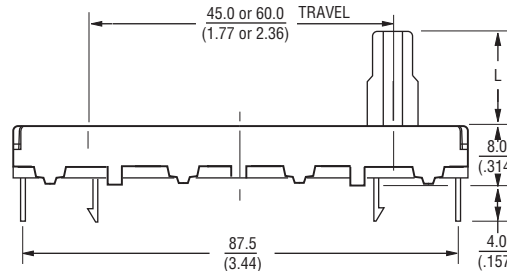
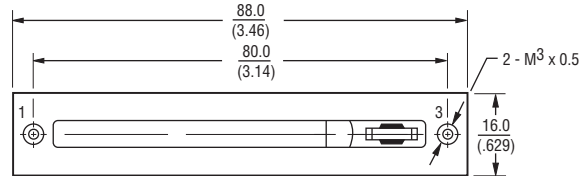
### Derating Curve



\*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.

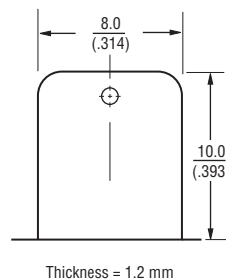
### Product Dimensions

#### PTB45 and PTB60

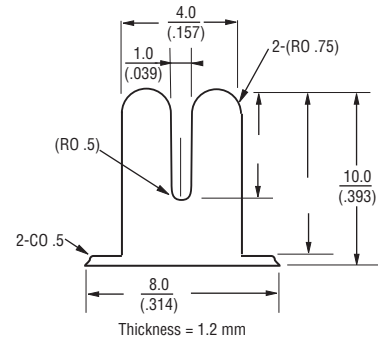


Numbers ①, ② and ③ for Dual Gang Versions

Lever Style  
BP Metal Lever



AP Metal Lever



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

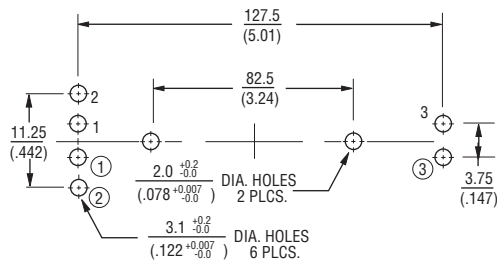
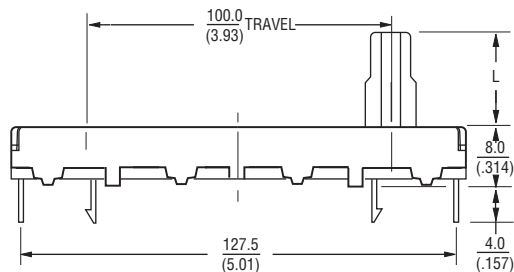
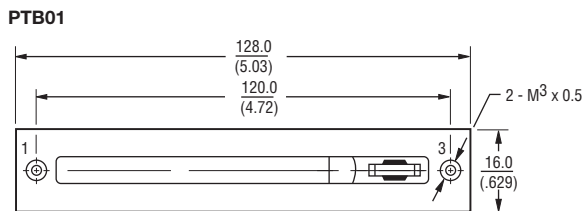
## Applications

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

# PTB Series - Low Profile Slide Potentiometer

# BOURNS®

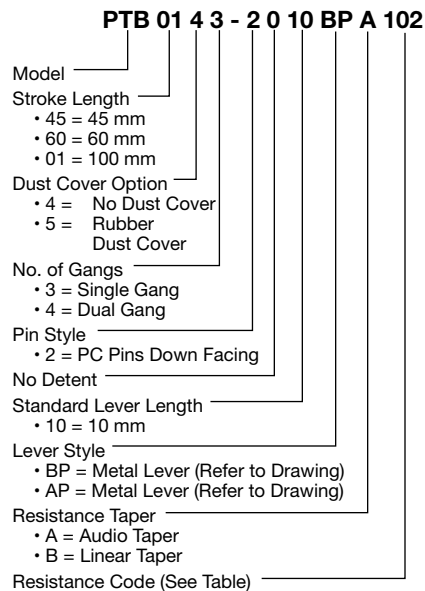
### Product Dimensions



Numbers ①, ② and ③ for Dual Gang Versions

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

### How To Order



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

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.

For more information about this product, visit our website at: [www.potentiometers.com](http://www.potentiometers.com)