



## Features

- Carbon element
- Plain or knurled shaft option
- Metal bushing
- Metal shaft
- Rear solder lugs
- Compact size
- Dual gang option

## PDB181-GTR Series - 17 mm Guitar Potentiometer

### Electrical Characteristics

Taper..... Linear, audio  
 Standard Resistance Range ..... 10 K ohms to 1 M ohms  
 Standard Resistance Tolerance.....±20 %  
 Residual Resistance..... 1 % max.

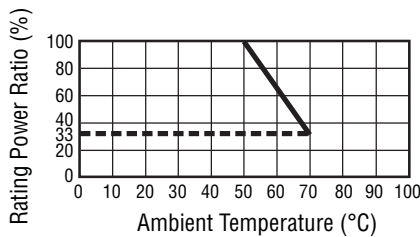
### Environmental Characteristics

Operating Temperature .....-10 °C to +50 °C  
 Power Rating  
 Linear..... 0.2 watt  
 Dual Section ..... 0.125 watt  
 Audio..... 0.1 watt  
 Dual Section ..... 0.06 watt  
 Maximum Operating Voltage  
 Linear.....200 V  
 Audio.....150 V  
 Sliding Noise.....47 mV max.

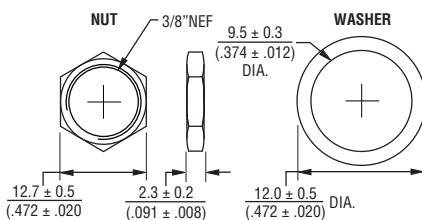
### Mechanical Characteristics

Mechanical Angle ..... 300 ° ±5 °  
 Rotational Torque ..... 10 to 150 gf-cm  
 Stop Strength..... 5 kg-cm min.  
 Rotational Life..... 15,000 cycles  
 Soldering Condition  
 ..... 260 °C max. within 3 seconds  
 Hardware ..... Two flat washers and two mounting nuts supplied per potentiometer

### Derating Curve



### Hardware



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

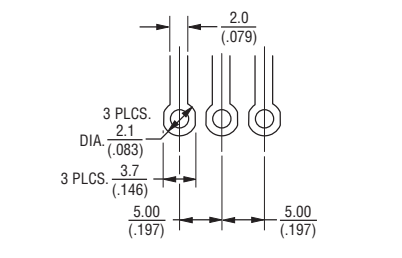
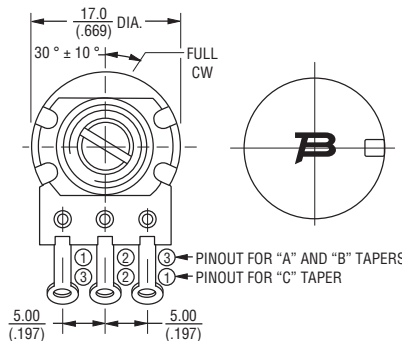
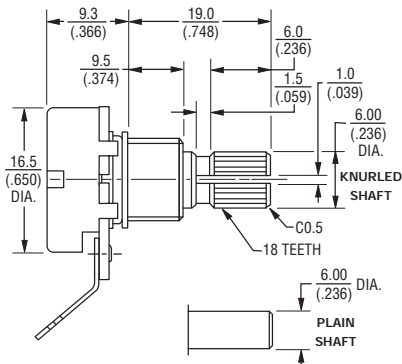
\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

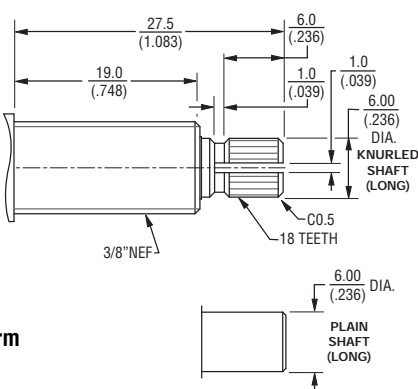
The products described herein and this document are subject to specific disclaimers as set forth on the last page of this document, and at [www.bourns.com/legal/disclaimer.pdf](http://www.bourns.com/legal/disclaimer.pdf).

### Product Dimensions

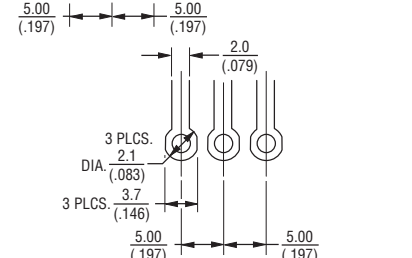
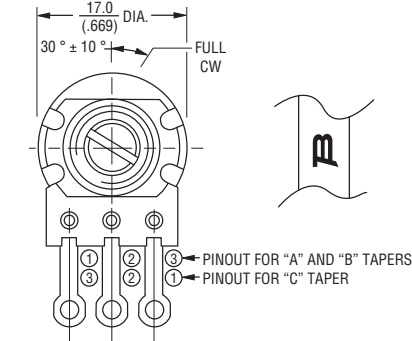
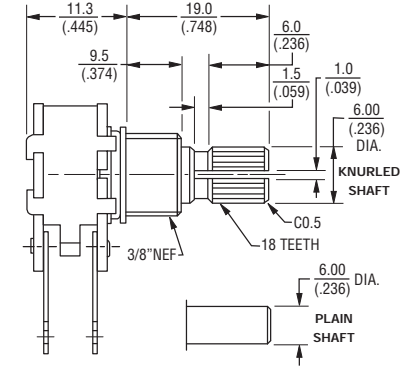
PDB181-GTR01  
PDB181-GTR02



PDB18x-GTR03  
PDB18x-GTR04



PDB182-GTR01  
PDB182-GTR02



TOLERANCES:

$$\text{UNDER } 10.0 = \begin{matrix} \pm 0.3 \\ (\pm 0.12) \end{matrix} \quad \begin{matrix} 10.0 - 100 \\ (\pm 0.394 - 3.937) \end{matrix} = \begin{matrix} \pm 0.5 \\ (\pm 0.20) \end{matrix}$$

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

## Additional Features

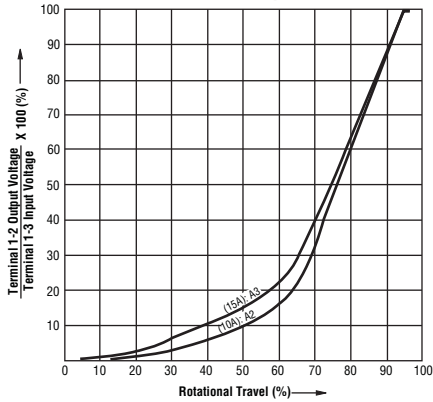
- Variety of resistance values
- Audio or linear taper option
- RoHS compliant\*

# PDB181-GTR Series - 17 mm Guitar Potentiometer

# BOURNS®

### Taper Charts

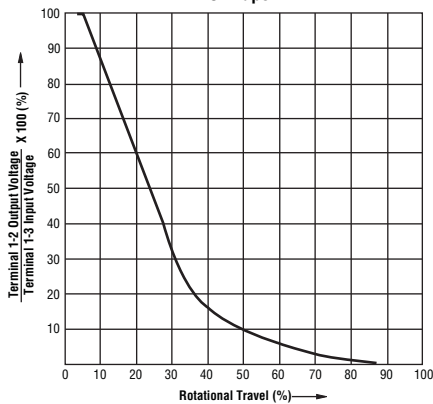
#### A Series Tapers



#### B0 Taper



#### C2 Taper

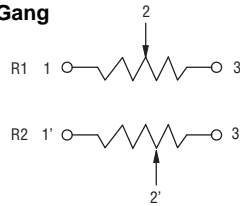


### Circuit

#### Single Gang



#### Dual Gang



### How to Order

**PDB18 1 - GTR 01 - 103 A2**

Model \_\_\_\_\_  
 Number of Sections \_\_\_\_\_  
 1 = Single Section  
 2 = Dual Section  
 Guitar Pot Designator \_\_\_\_\_  
 Configuration \_\_\_\_\_  
 01 = Knurled Shaft/Solder Lugs  
 02 = Plain Shaft/Solder Lugs  
 03 = Knurled Shaft (Long)/Solder Lugs  
 04 = Plain Shaft (Long)/Solder Lugs  
 Resistance Code (See Table) \_\_\_\_\_  
 Resistance Taper (See Taper Charts) \_\_\_\_\_

### Standard Resistance Table

Resistance (Ohms)	Resistance Code
10,000	103
25,000	253
50,000	503
100,000	104
250,000	254
300,000	304
500,000	504
1,000,000	105

# BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

REV. 10/19

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf)