



## 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.....  $\pm 20\%$   
Residual Resistance..... 1 % max.

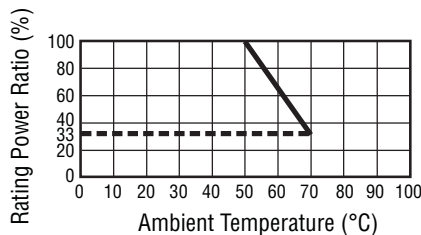
### Environmental Characteristics

Operating Temperature  
.....  $-10^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$   
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.

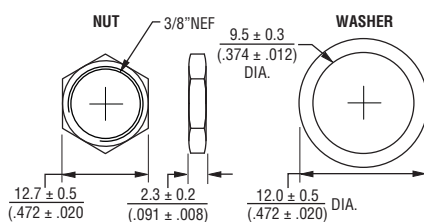
### Mechanical Characteristics

Mechanical Angle.....  $300^{\circ} \pm 5^{\circ}$   
Rotational Torque..... 10 to 150 gf-cm  
Stop Strength..... 5 kg-cm min.  
Rotational Life..... 15,000 cycles  
Soldering Condition  
.....  $260^{\circ}\text{C}$  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.

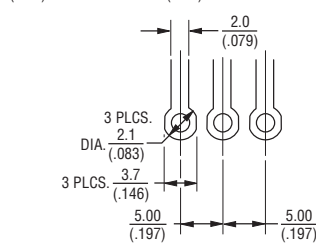
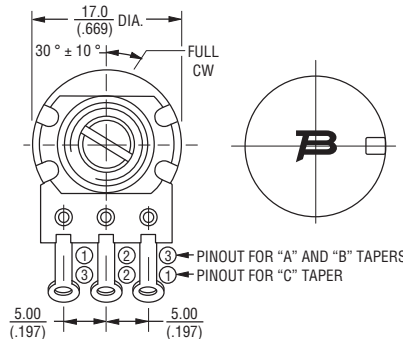
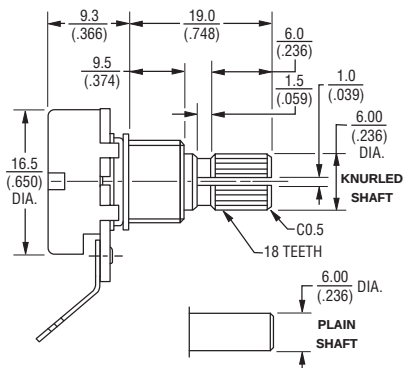
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

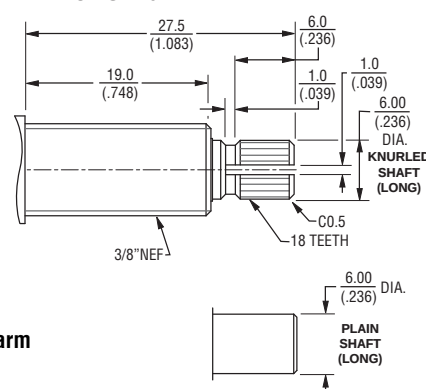
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### Product Dimensions

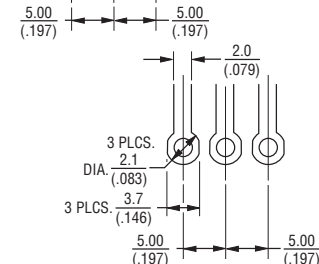
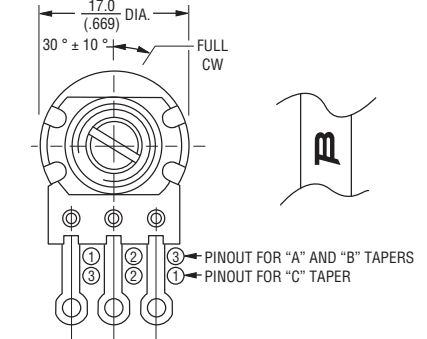
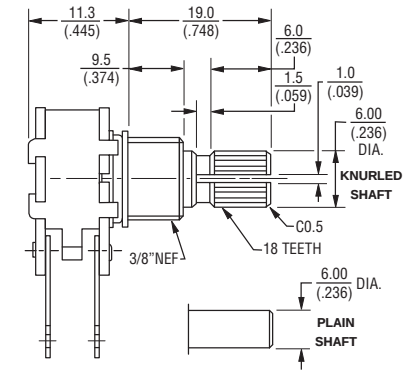
#### PDB181-GTR01 PDB181-GTR02



#### PDB18x-GTR03 PDB18x-GTR04



#### PDB182-GTR01 PDB182-GTR02



#### TOLERANCES:

$$\text{UNDER } 10.0 = \frac{+0.3}{(.394)} = \frac{\pm 0.5}{(.394 - 3.937)} = \frac{\pm 0.5}{(\pm 0.20)}$$

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

## Additional Features

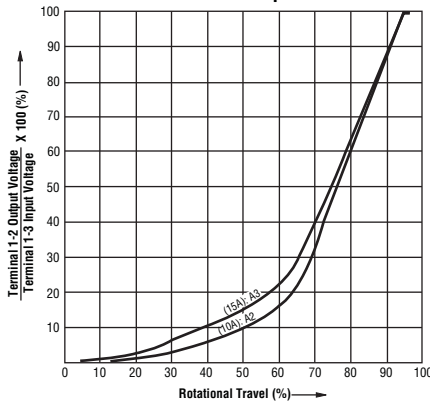
- Variety of resistance values
- Audio or linear taper option
- RoHS compliant\*

# PDB181-GTR Series - 17 mm Guitar Potentiometer

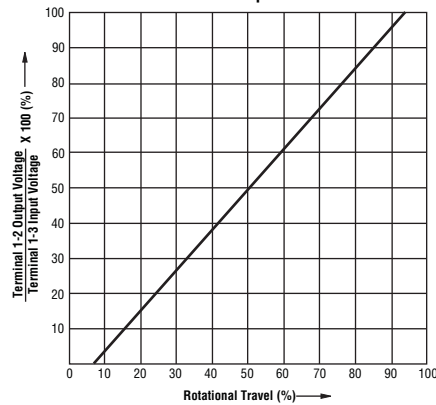
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## Taper Charts

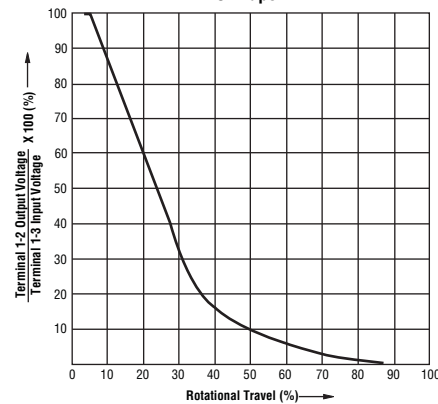
**A Series Tapers**



**B0 Taper**

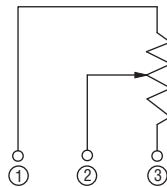


**C2 Taper**

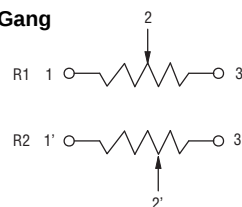


## Circuit

### 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             |

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REV. 10/19

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