



## 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.

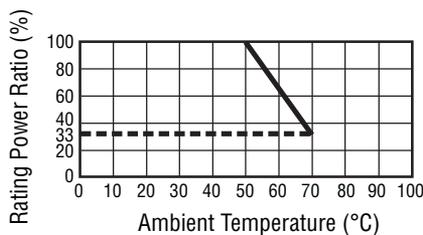
### Environmental Characteristics

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.

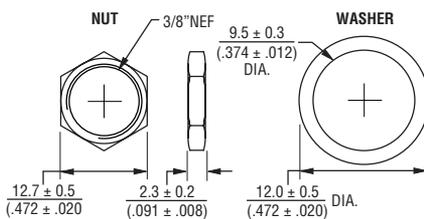
### Mechanical Characteristics

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

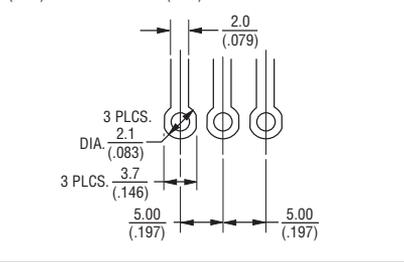
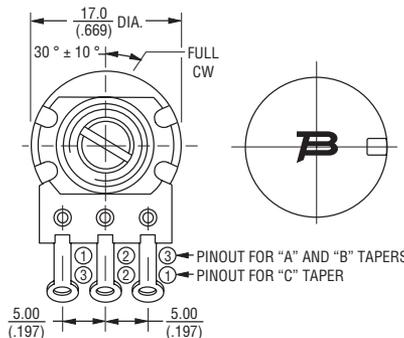
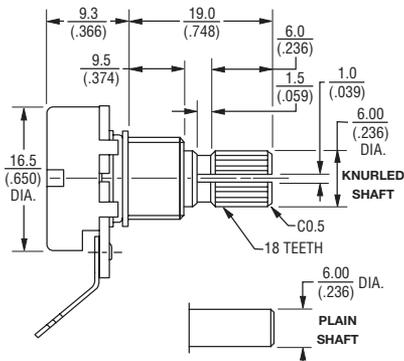


### Hardware

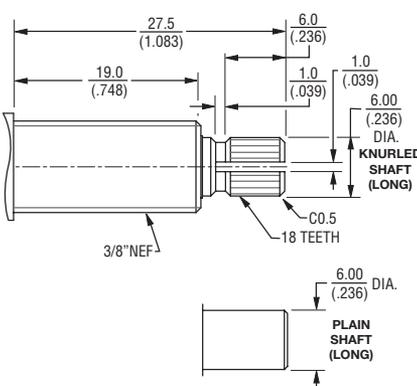


### Product Dimensions

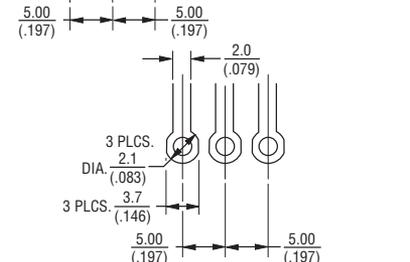
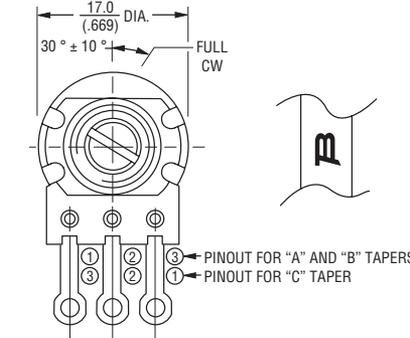
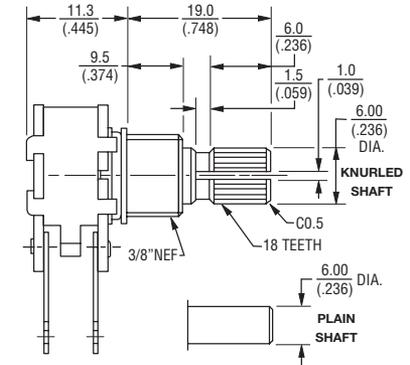
**PDB181-GTR01**  
**PDB181-GTR02**



**PDB18x-GTR03**  
**PDB18x-GTR04**



**PDB182-GTR01**  
**PDB182-GTR02**



TOLERANCES:  
 UNDER  $\frac{10.0}{(.394)} = \frac{\pm 0.3}{(\pm 0.12)}$      $\frac{10.0 - 100}{(.394 - 3.937)} = \frac{\pm 0.5}{(\pm 0.20)}$

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

\*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. Customers should verify actual device performance in their specific applications.

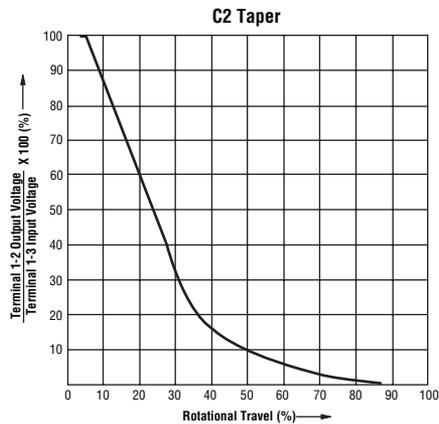
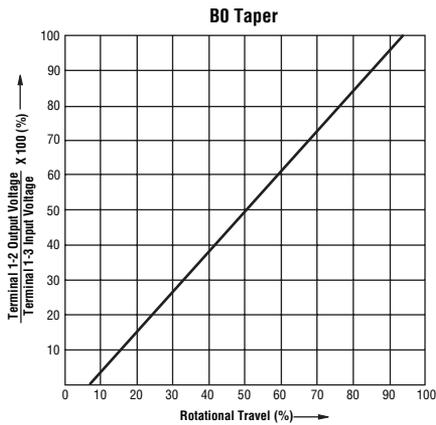
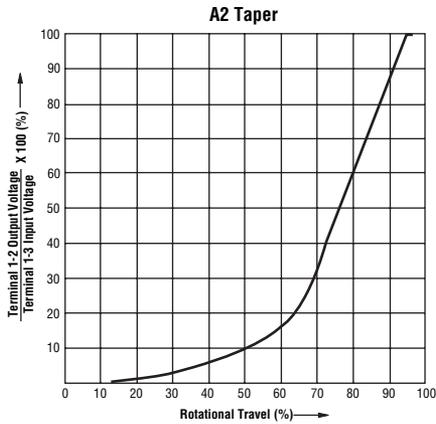
## Additional Features

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

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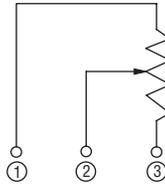
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### Taper Charts

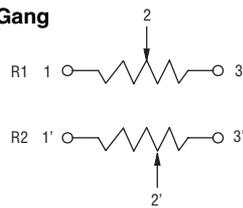


### Circuit

#### 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. 12/11

Specifications are subject to change without notice.  
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