



## Features

- Low torque
- Carbon element
- Plain or knurled shaft option
- Metal bushing
- Metal shaft
- Rear solder lugs
- Audio or linear taper options



- Variety of resistance values
- RoHS compliant\*

## PDB241-GTR Series - 24 mm Guitar Potentiometer

### Electrical Characteristics

Taper.....Audio, linear  
Standard Resistance .....10K to 1M ohms  
Standard Resistance Tolerance.....±20 %

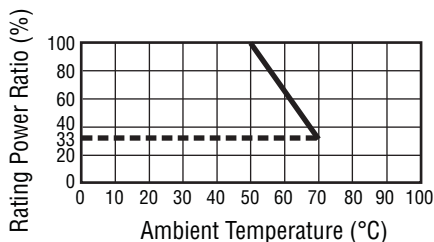
### Environmental Characteristics

Operating Temperature .....-10 °C to +70 °C  
Power Rating .....0.25 watt  
Maximum Operating Voltage .....250 V  
Rotational Noise .....150 mV max.

### Mechanical Characteristics

Mechanical Angle .....300 ° ±5 °  
Rotational Torque .....10 to 45 g-cm  
Stop Strength.....8 kg-cm min.  
Rotational Life.....15,000 cycles min.  
Soldering Condition  
Manual Soldering  
.....300 °C within 3 seconds  
Wave Soldering  
.....260 °C within 3 seconds  
Hardware .....Two flat washers and  
two mounting nuts supplied  
per potentiometer

### Derating Curve

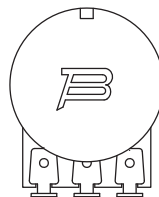
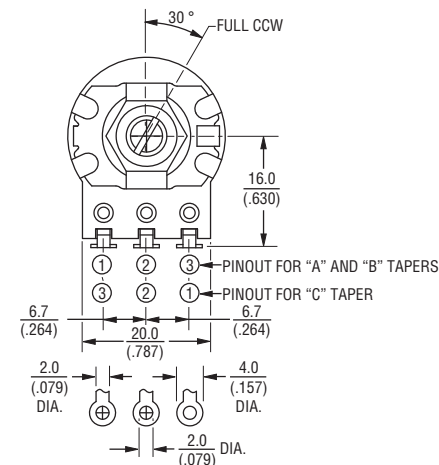
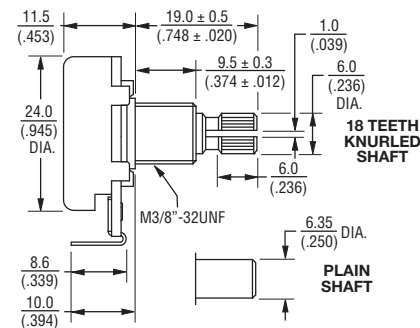


### Standard Resistance Table

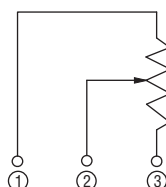
Resistance (Ohms)	Resistance Code
10,000	103
25,000	253
50,000	503
100,000	104
250,000	254
300,000	304
500,000	504
1,000,000	105

### Product Dimensions

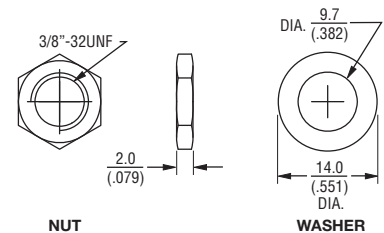
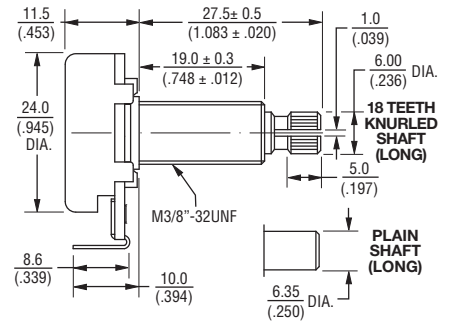
#### PDB241-GTR01



### Circuit



#### PDB241-GTR03



TOLERANCES:  
UNDER 10.0 = ±0.3 10.0 ~ 100 = ±0.5  
(.394) = (±.012) (.394 ~ 3.937) = (±.020)

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

### How To Order

#### PDB24 1 - GTR 01 - 504 A2

Model \_\_\_\_\_  
Number of Units \_\_\_\_\_  
1 = Single  
Guitar Pot Designator \_\_\_\_\_  
Configuration \_\_\_\_\_  
1 = Knurled Shaft / Solder Lugs  
2 = Plain Shaft / Solder Lugs  
3 = Knurled Shaft (Long) / Solder Lugs  
4 = Plain Shaft (Long) / Solder Lugs  
Resistance Code (See Table) \_\_\_\_\_  
Resistance Taper (See Taper Charts) \_\_\_\_\_

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

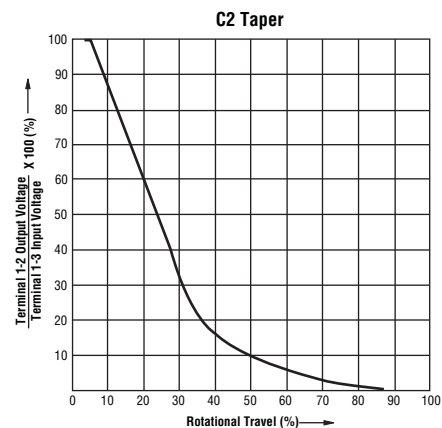
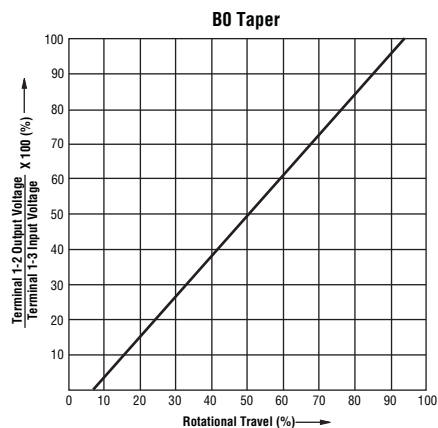
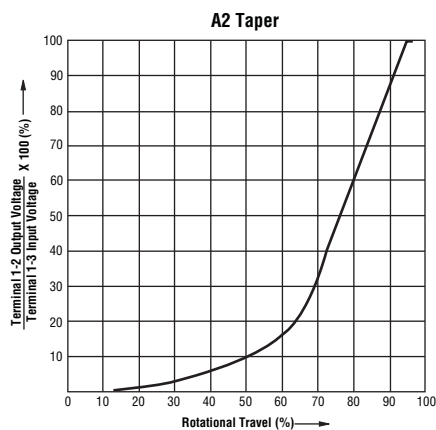
Specifications are subject to change without notice.

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.

# PDB241-GTR Series - 24 mm Guitar Potentiometer

**BOURNS®**

## Taper Charts



Other tapers available.

REV. 11/13

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