



## 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

### Additional Information

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INVENTORY



SAMPLES



CONTACT

### Electrical Characteristics

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

### Environmental Characteristics

Operating Temperature  
..... $-10^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   
Power Rating.....0.25 watt  
Maximum Operating Voltage.....250 V  
Rotational Noise.....150 mV max.

### Mechanical Characteristics

Mechanical Angle..... $300^{\circ} \pm 5^{\circ}$   
Rotational Torque.....10 to 45 g-cm  
Stop Strength.....8 kg-cm min.  
Rotational Life  
Standard.....15,000 cycles min.  
Extended.....100,000 cycles  
Soldering Condition  
Manual Soldering  
..... $300^{\circ}\text{C}$  within 3 seconds  
Wave Soldering  
..... $260^{\circ}\text{C}$  within 3 seconds  
Hardware.....Two flat washers and  
two mounting nuts supplied  
per potentiometer

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#### The Americas:

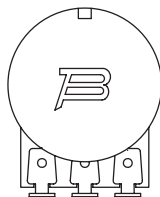
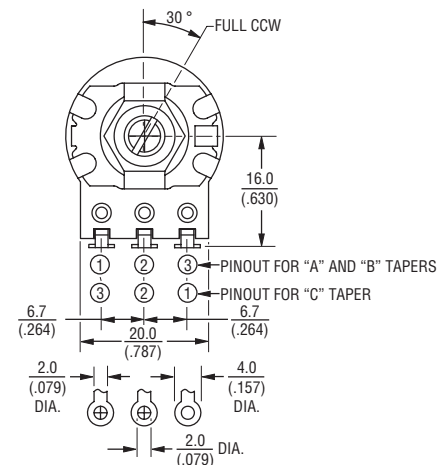
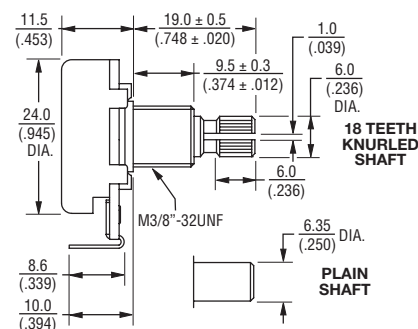
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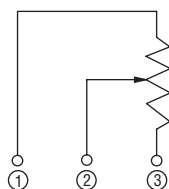
[www.bourns.com](http://www.bourns.com)

### Product Dimensions

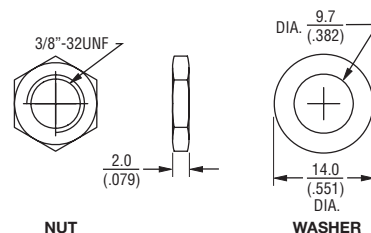
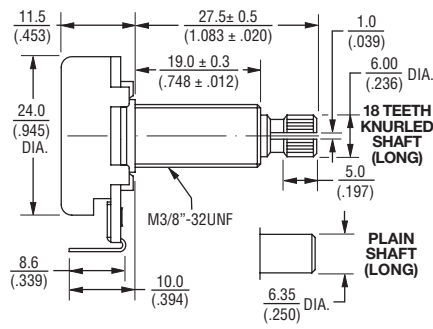
#### PDB241-GTR01



### Circuit



#### PDB241-GTR03



TOLERANCES:  
UNDER 10.0  $\pm 0.3$  10.0 ~ 100  $\pm 0.5$   
(.394)  $(\pm 0.012)$  (.394 ~ 3.937)  $(\pm 0.020)$

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

### How To Order

#### PDB24 1 - GTR 0 1 - 504 A2

Model \_\_\_\_\_  
Number of Units \_\_\_\_\_  
1 = Single  
Guitar Pot Designator \_\_\_\_\_  
Rotational Life \_\_\_\_\_  
0 = 15,000 cycles min.  
1 = 100,000 cycles  
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) \_\_\_\_\_



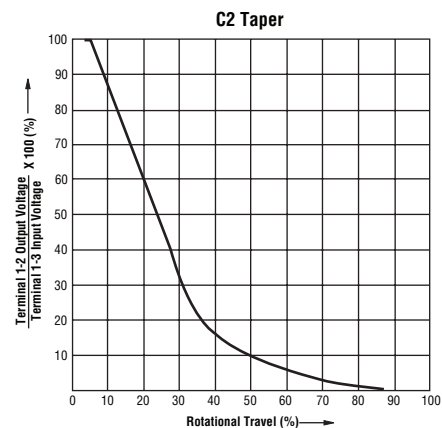
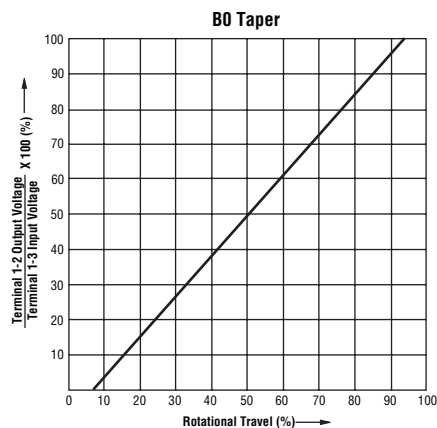
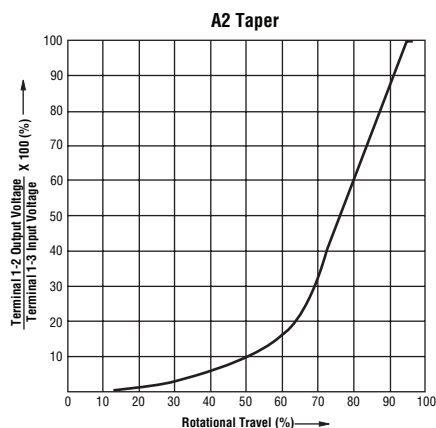
**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*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 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).

# PDB241-GTR Series - 24 mm Guitar Potentiometer

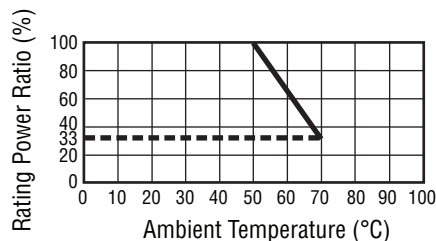
**BOURNS®**

## Taper Charts



Other tapers available.

## 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

REV. 05/25

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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