



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.

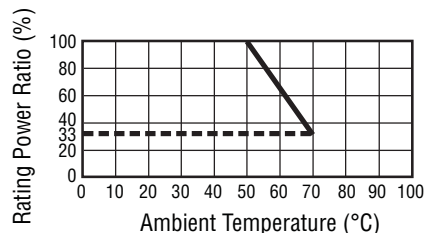
Environmental Characteristics

Operating Temperature
 -10°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.

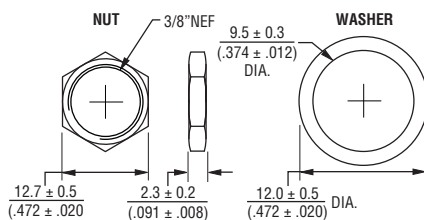
Mechanical Characteristics

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°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

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

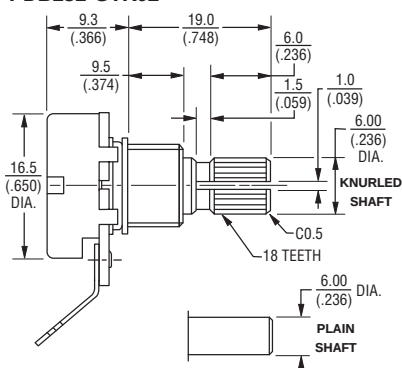
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

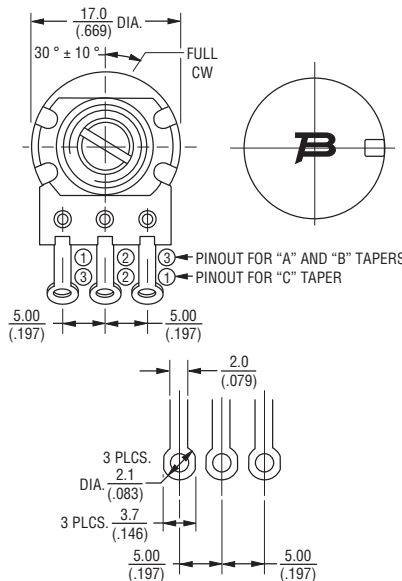
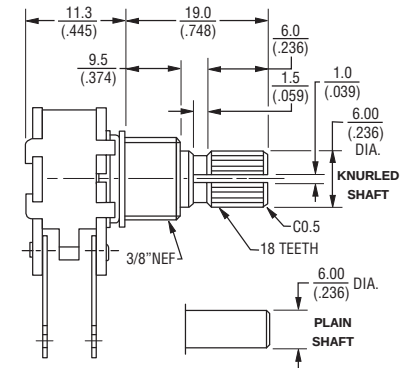
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Product Dimensions

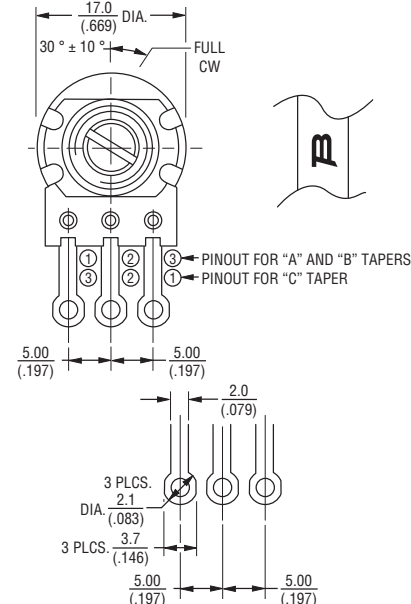
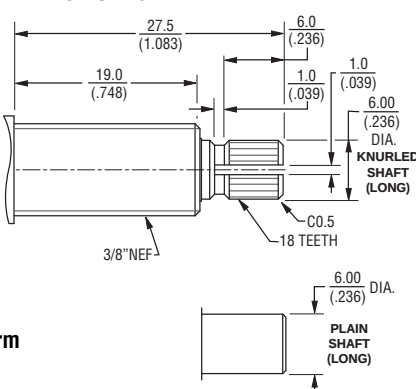
**PDB181-GTR01
PDB181-GTR02**



**PDB182-GTR01
PDB182-GTR02**



**PDB18x-GTR03
PDB18x-GTR04**



TOLERANCES:
 UNDER 10.0 = ± 0.3 10.0 ~ 100 = ± 0.5
 (.394) = (± 0.012) (.394 ~ 3.937) = (± 0.020)

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

Additional Features

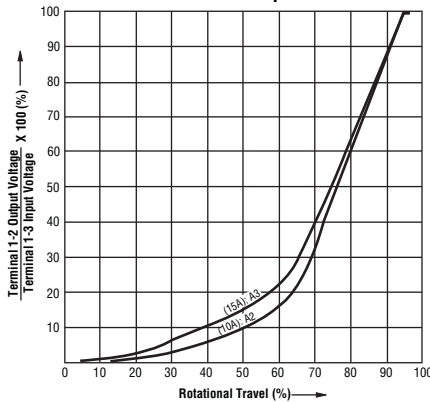
- Variety of resistance values
- Audio or linear taper option
- RoHS compliant*

PDB181-GTR Series - 17 mm Guitar Potentiometer

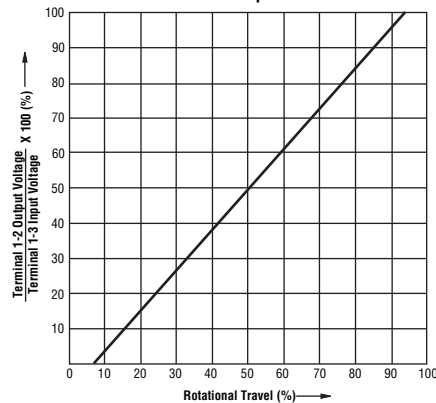
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Taper Charts

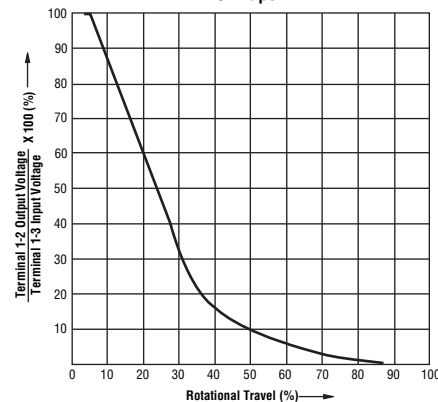
A Series Tapers



B0 Taper

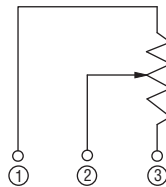


C2 Taper

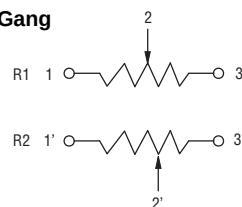


Circuit

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

BOURNS®

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REV. 10/19

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Users should verify actual device performance in their specific applications.

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