



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.

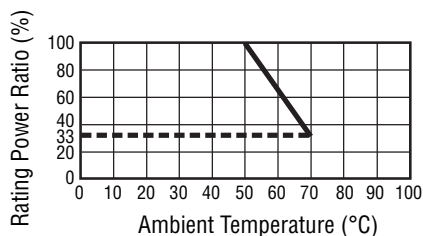
Environmental Characteristics

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.

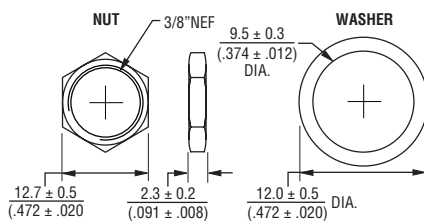
Mechanical Characteristics

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

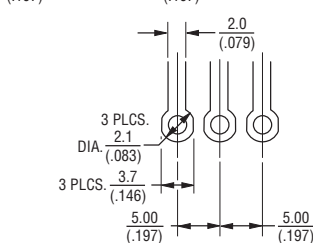
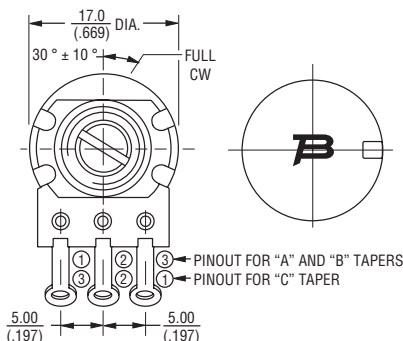
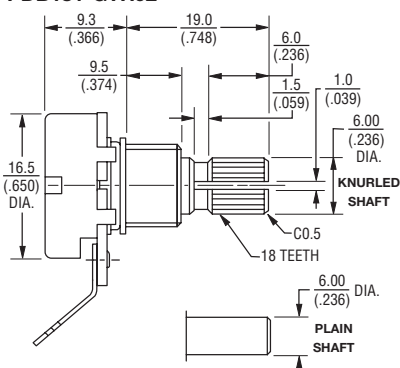


Hardware

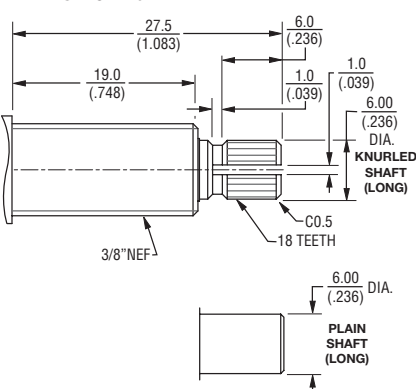


Product Dimensions

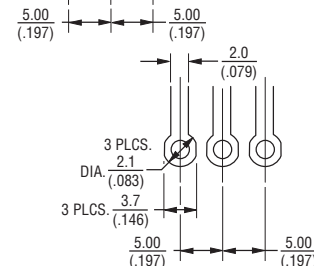
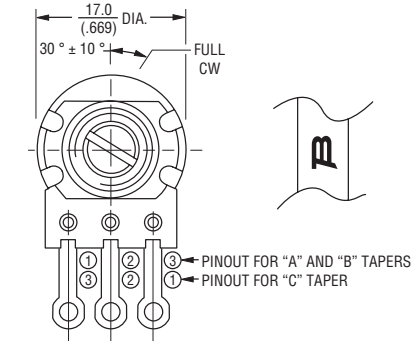
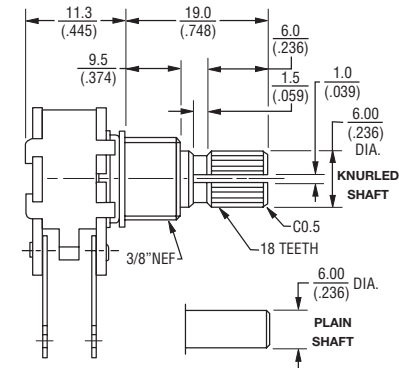
PDB181-GTR01
PDB181-GTR02



PDB18x-GTR03
PDB18x-GTR04



PDB182-GTR01
PDB182-GTR02



TOLERANCES:

$$\text{UNDER } 10.0 = \frac{+0.3}{(.394)} = \frac{\pm 0.12}{(.394 \sim 3.937)} = \frac{\pm 0.5}{(\pm 0.20)}$$

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

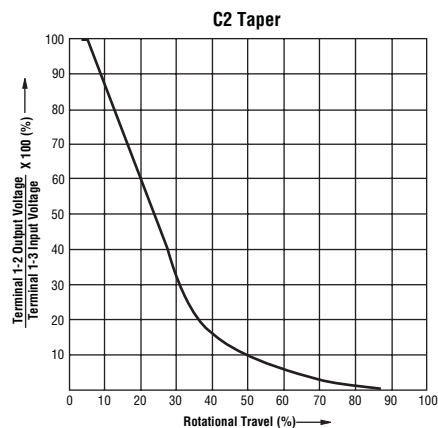
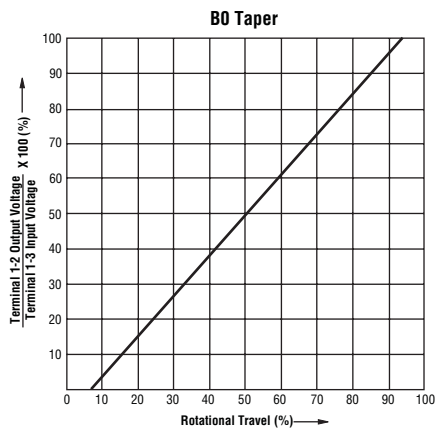
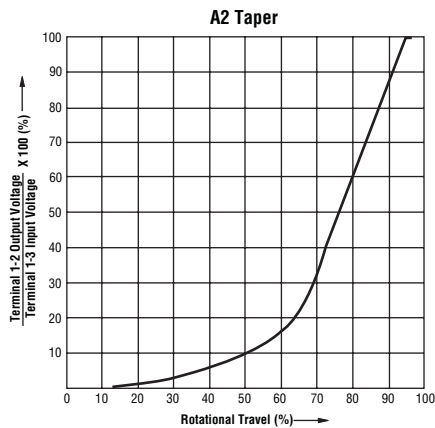
Additional Features

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

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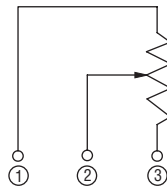
BOURNS®

Taper Charts

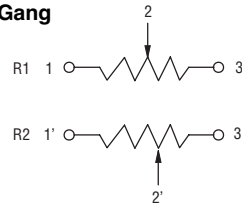


Circuit

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

BOURNS®

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REV. 12/11

Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.