



Features

- Carbon element
- Plain or knurled shaft option
- Metal bushing
- Metal shaft
- Rear solder lugs
- Compact size
- Dual gang option
- Variety of resistance values
- Audio or linear taper option
- RoHS compliant*

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... ±20 %
 Residual Resistance..... 1 % max.

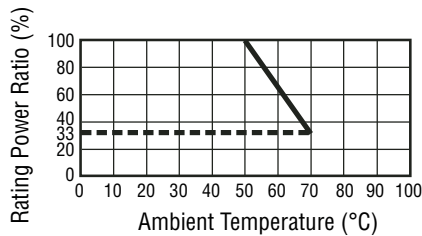
Environmental Characteristics

Operating Temperature
 -10 °C to +50 °C
 Power Rating
 Linear.....0.2 watt
 Dual Section0.125 watt
 Audio0.1 watt
 Dual Section0.06 watt
 Maximum Operating Voltage
 Linear.....200 V
 Audio150 V
 Sliding Noise47 mV max.

Mechanical Characteristics

Mechanical Angle300 ° ±5 °
 Rotational Torque 10 to 150 gf-cm
 Stop Strength5 kg-cm min.
 Rotational Life15,000 cycles
 Soldering Condition
260 °C max. within 3 seconds
 Hardware.....One flat washer and
 mounting nut supplied per
 potentiometer with bushing

Derating Curve

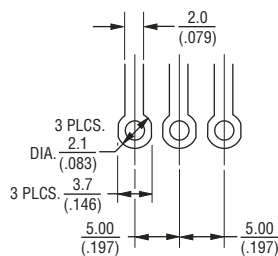
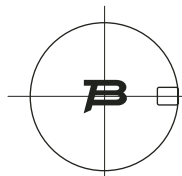
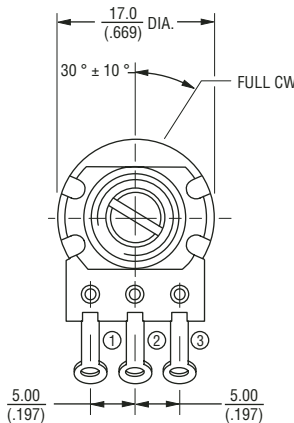
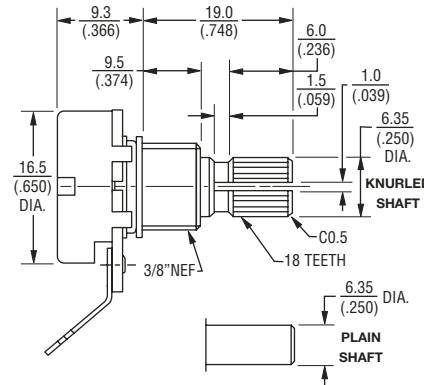


Standard Resistance Table

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

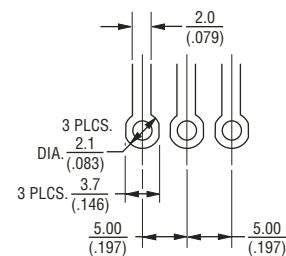
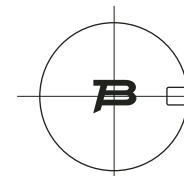
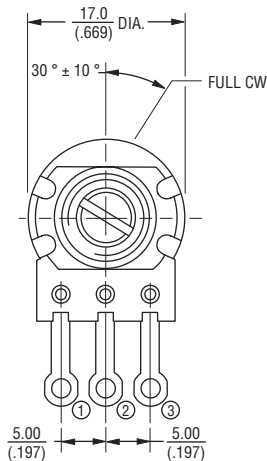
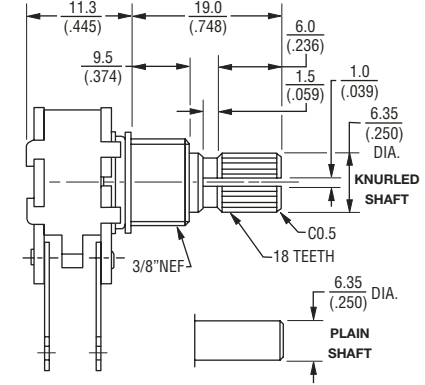
Product Dimensions

PDB181



TOLERANCES:
 UNDER $\frac{10.0}{(.394)} = \frac{\pm 0.3}{(\pm .012)}$ $\frac{10.0 \sim 100}{(.394 \sim 3.937)} = \frac{\pm 0.5}{(\pm .020)}$

PDB182



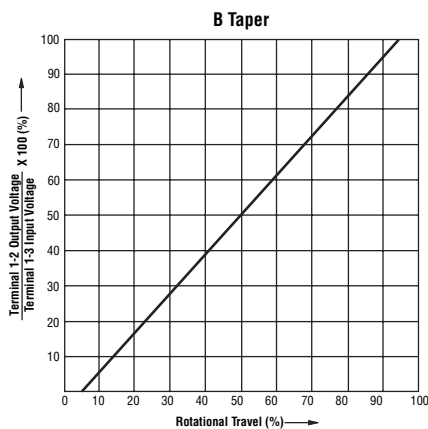
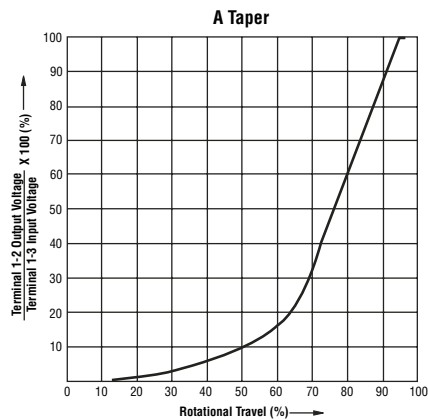
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*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications

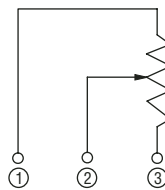
PDB181-GTR Series - 17 mm Guitar Potentiometer

BOURNS®

Taper Charts



Circuit



How to Order

PDB18 1 - GTR 01 - 103 A

Model _____

Number of Sections _____
 1 = Single Section
 2 = Dual Section

Guitar Pot Designator _____

Configuration _____
 01 = Knurled Shaft/Solder Lugs
 02 = Plain Shaft/Solder Lugs

Resistance Code (See Table) _____

Resistance Taper (See Taper Charts) _____



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