



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.

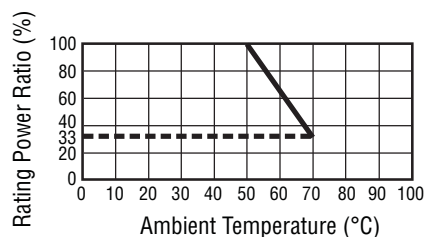
Environmental Characteristics

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 One flat washer and
 mounting nut supplied per
 potentiometer with bushing

Derating Curve

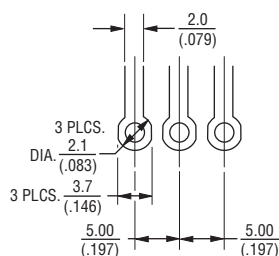
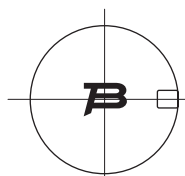
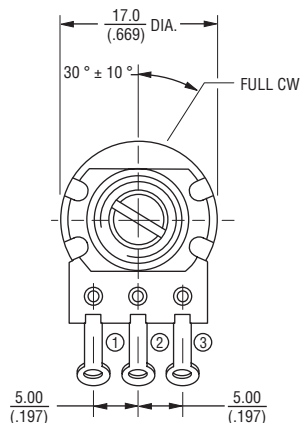
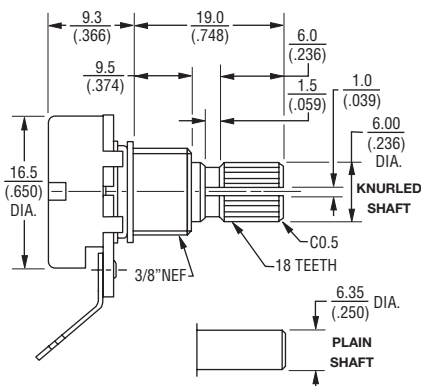


Standard Resistance Table

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

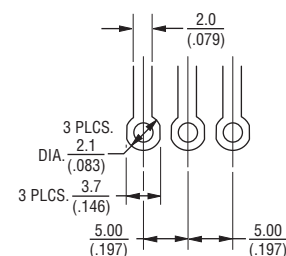
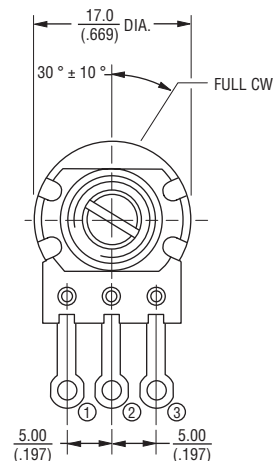
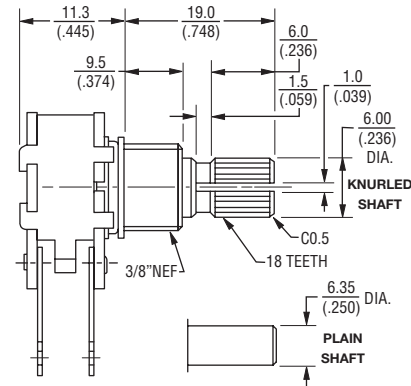
Product Dimensions

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



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

*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.

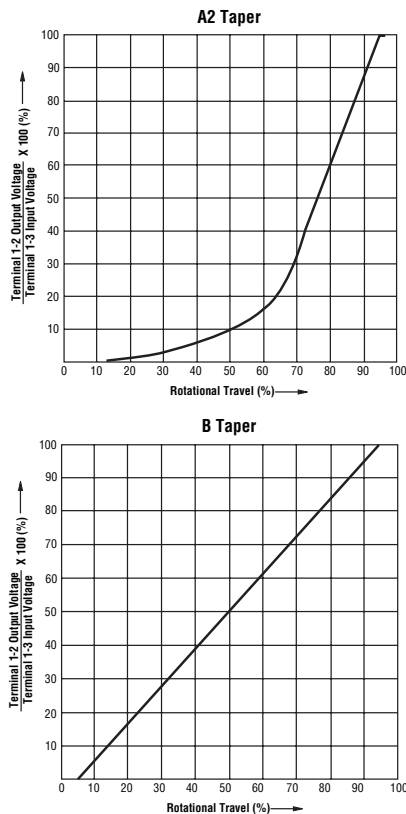
Additional Features

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

PDB181-GTR Series - 17 mm Guitar Potentiometer

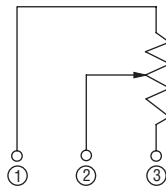
BOURNS®

Taper Charts

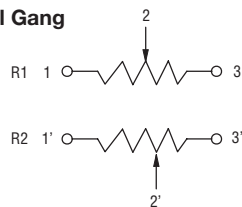


Circuit

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

Resistance Code (See Table) _____

Resistance Taper (See Taper Charts) _____



Asia-Pacific:

Tel: +886-2 2562-4117
Fax: +886-2 2562-4116

Europe:

Tel: +41-41 768 5555
Fax: +41-41 768 5510

The Americas:

Tel: +1-951 781-5500
Fax: +1-951 781-5700

www.bourns.com

REV. 02/10

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