



Features

- Split knurled or plain shaft options
- DPDT push-pull switch
- Metal bushing and shaft
- Carbon element
- Linear and audio taper options
- RoHS compliant*



PDB183-GTR - 17 mm Guitar Potentiometer w/Push-Pull Switch

Electrical Characteristics

Taper..... Linear, audio
Standard Resistance Range

..... 10K ohms to 1M 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

Audio 0.1 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 30 to 100 g-cm

Stop Strength..... 5 kg-cm min.

Rotational Life..... 15,000 cycles

Switch Life 15,000 cycles

Switch Type DPDT

Switch Travel 4.3 ± 0.2 mm
(.169 $\pm$.008 in.)

Soldering Condition

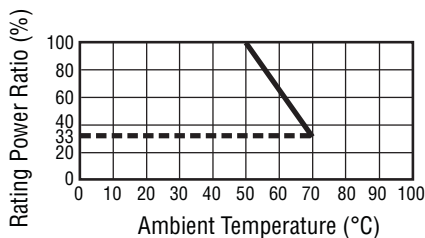
Manual/Wave

..... 260°C max. for 3 seconds max.

Wash Not recommended

Hardware Two flat washers and
two mounting nuts supplied per
potentiometer

Derating Curve

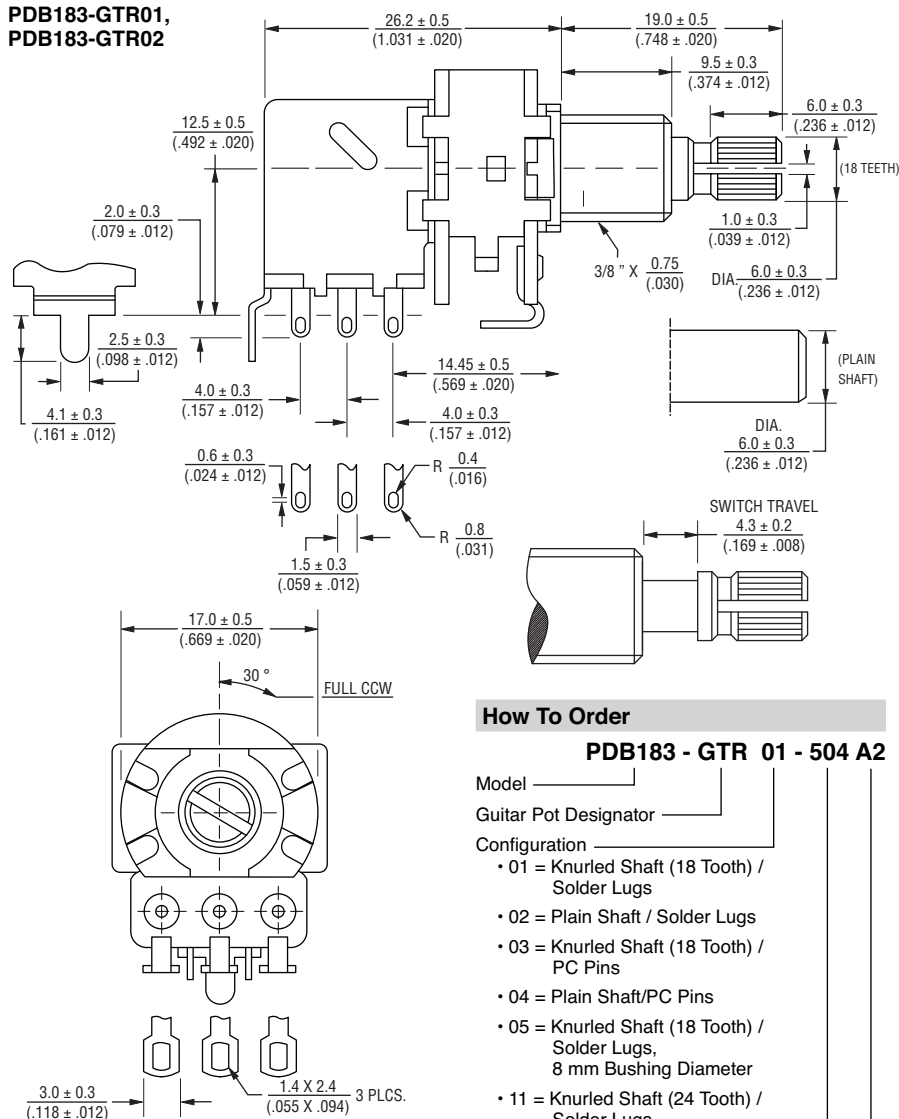


Standard Resistance Table

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

PDB183-GTR01,
PDB183-GTR02



How To Order

PDB183 - GTR 01 - 504 A2

Model _____

Guitar Pot Designator _____

Configuration _____

- 01 = Knurled Shaft (18 Tooth) / Solder Lugs
- 02 = Plain Shaft / Solder Lugs
- 03 = Knurled Shaft (18 Tooth) / PC Pins
- 04 = Plain Shaft/PC Pins
- 05 = Knurled Shaft (18 Tooth) / Solder Lugs, 8 mm Bushing Diameter
- 11 = Knurled Shaft (24 Tooth) / Solder Lugs
- 13 = Knurled Shaft (24 Tooth) / PC Pins
- 21 = Knurled Shaft (18 Tooth) / Solder Lugs / Dual Gang
- 22 = Plain Shaft / Solder Lugs/ Dual Gang
- 31 = Knurled Shaft (18 Tooth) / Solder Lugs, Long Bushing
- 32 = Plain Shaft / Solder Lugs / Long Bushing

Resistance Code (See table) _____

Resistance Taper (See taper charts) _____

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

BOURNS®

Technical drawing of the front view of a 3-phase motor terminal box. The drawing shows a circular top section with a central circular opening and three mounting feet. Below the top section is a rectangular base with three terminal openings. Dimensions are provided for the overall width, the base height, and the terminal opening width. A 30-degree angle is indicated for the top section's profile. The text "FULL CCW" is written next to the top section.

Dimensions:

- Overall width: 17.0 ± 0.5 ($.669 \pm .020$)
- Base height: 12.5 ± 0.5 ($.492 \pm .020$)
- Terminal opening width: 4.0 ± 0.3 ($.157 \pm .012$)
- Angle: 30°

Text: FULL CCW

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

The diagram shows a 4-to-2 multiplexer implemented using two 2-to-1 multiplexers. On the left, there are four input lines, each ending in a circle. The top two inputs are connected to the top 2-to-1 multiplexer, and the bottom two inputs are connected to the bottom 2-to-1 multiplexer. Each 2-to-1 multiplexer has a vertical line representing its select input. The outputs of these two multiplexers are connected to the two output lines on the right, each ending in a circle.

SHOWN IN
PUSH POSITION

SHAFT SIDE

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

BOURNS®

Technical drawing showing the dimensions of a nut and washer assembly. The nut is a hexagonal nut with a central hole. The washer is a circular washer with a central hole. Dimensions are given in inches and fractions.

NUT

M3/8" - 32 UNF

$\frac{9.5 \pm 0.2}{(.374 \pm .008)}$ DIA.

WASHER

$\frac{12.7 \pm 0.5}{(.472 \pm .020)}$

$\frac{2.5 \pm 0.2}{(.098 \pm .008)}$

$\frac{14.0 \pm 0.5}{(.157 \pm .020)}$ DIA.

17.0 ± 0.5
(6.69 ± .020)

30 °

FULL CCW

3 PLS.
1.5 X 2.5
(.059 X .098)

5.0 ± 0.3
(1.97 ± .012)

5.0 ± 0.3
(1.97 ± .012)

Technical drawing of a shaft with the following dimensions and tolerances:

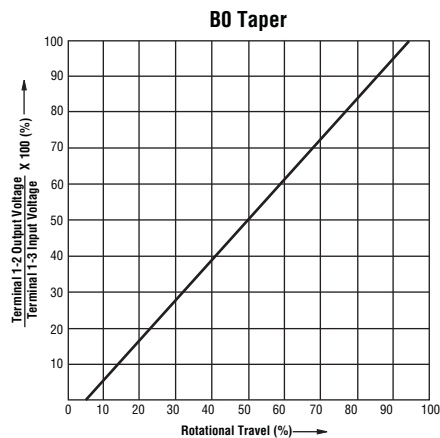
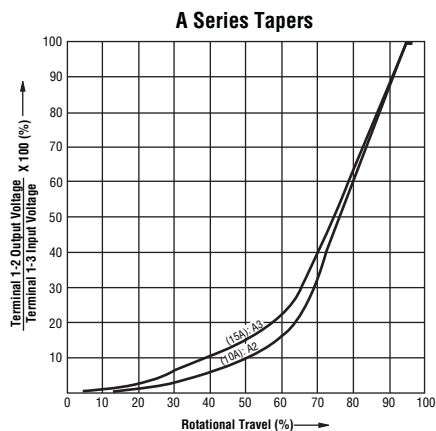
- Total length: 27.5 ± 0.2 ($1.083 \pm .008$)
- Distance from left end to start of taper: 19.0 ± 0.1 ($.748 \pm .004$)
- Shaft diameter: $\frac{3}{8}$ " X $\frac{0.75}{(.030)}$
- Taper specification: C $\frac{0.5}{(.020)}$ X 45°
- Distance from right end to start of taper: $\frac{6.0 \pm 0.3}{(.236 \pm .012)}$ DIA.

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

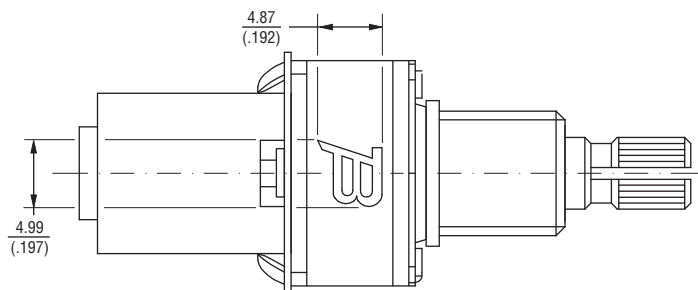
PDB183-GTR - 17 mm Guitar Potentiometer w/Push-Pull Switch

BOURNS®

Tapers



Typical Part Marking



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

REV. 04/14

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.