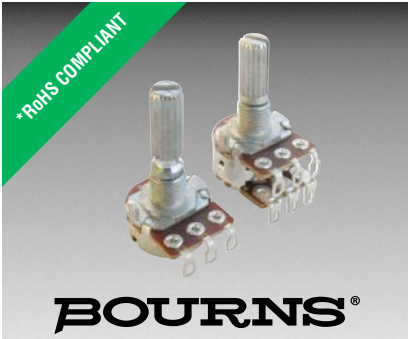




Features

- Single and dual section control
- Metal shaft styles
- Carbon element
- Center and multiple detent options
- Wide range of resistance tapers
- Plain or knurled shaft options



PDB18 Series - 17 mm Rotary Potentiometer

Electrical Characteristics

Taper..... Linear, audio
Standard Resistance Range
..... 1 K ohms to 1 M ohms
Standard Resistance Tolerance..... $\pm 20\%$
Residual Resistance..... 1 % max.

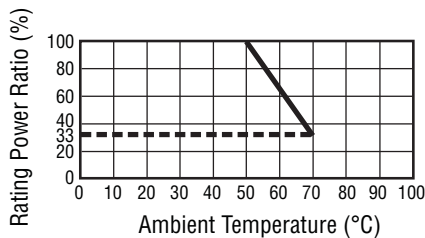
Environmental Characteristics

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

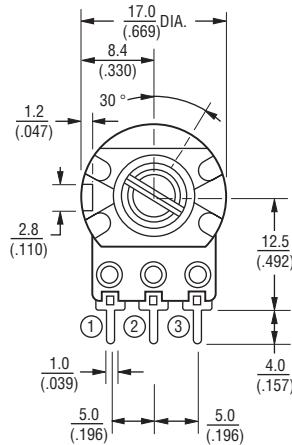
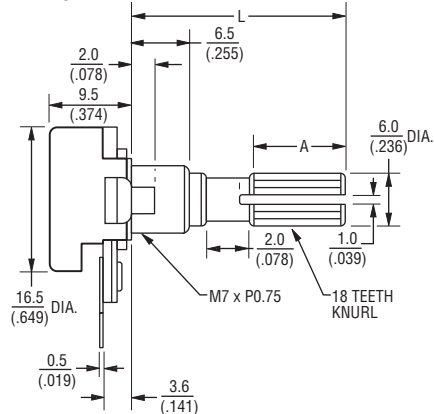
Mechanical Angle..... $300^{\circ} \pm 5^{\circ}$
Rotational Torque..... 10 to 150 gf-cm
Detent Torque..... 150 to 500 g-cm
Stop Strength..... 5 kg-cm min.
Rotational Life..... 15,000 cycles
Soldering Condition
..... 260°C max. within 3 seconds
Hardware..... One flat washer and
mounting nut supplied per
potentiometer with bushing

Derating Curve



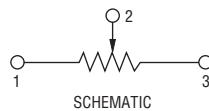
Product Dimensions

PDB181-K

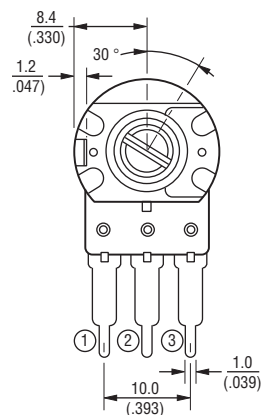
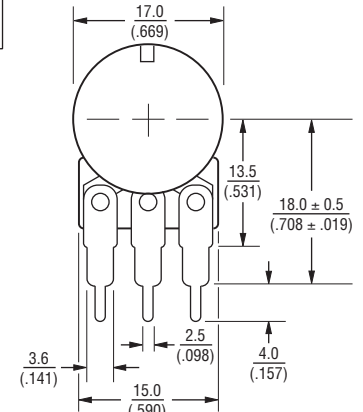
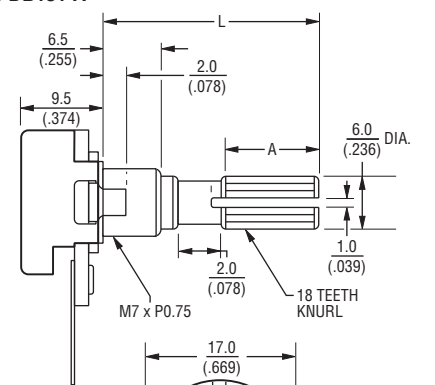


SHAFT SHOWN IN CCW POSITION

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



PDB181-A



SHAFT SHOWN IN CCW POSITION

*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.

Additional Features

- Linear, audio and reverse audio taper options
- RoHS compliant*

Applications

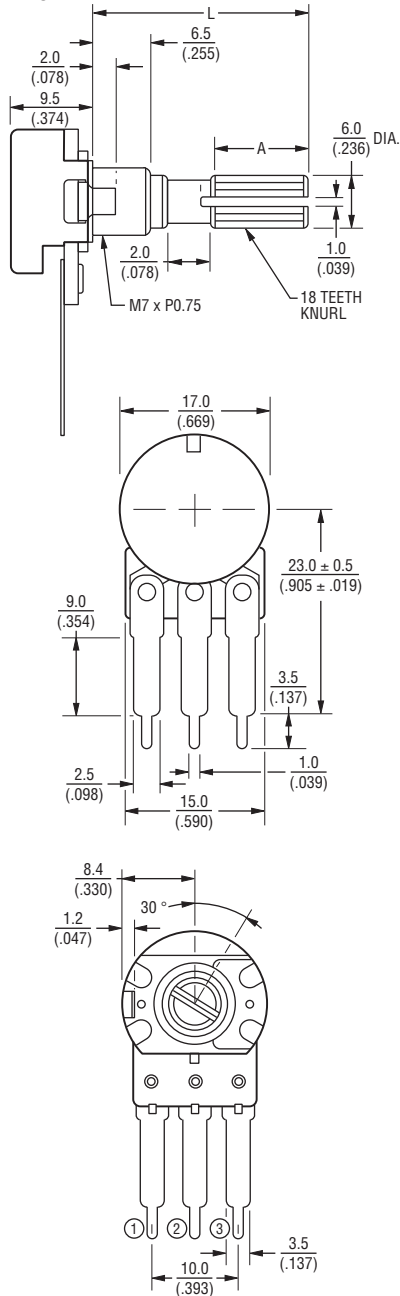
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

PDB18 Series - 17 mm Rotary Potentiometer

BOURNS®

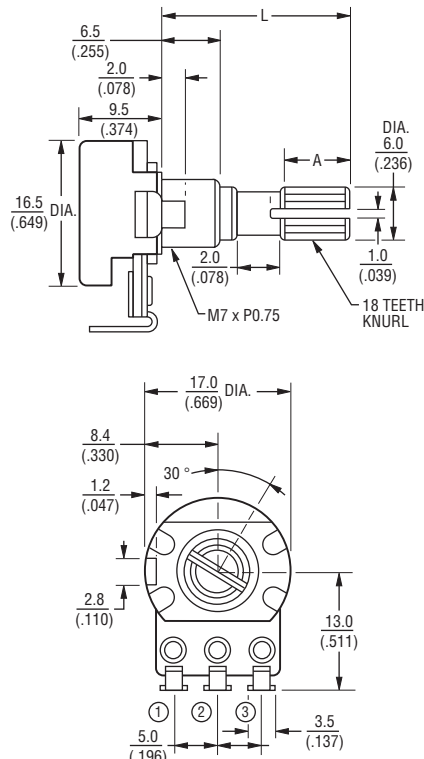
Product Dimensions

PDB181-B



SHAFT SHOWN IN CCW POSITION

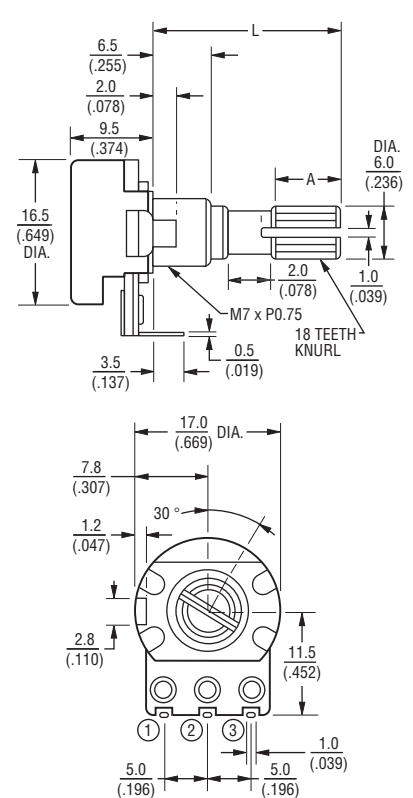
PDB181-E



SHAFT SHOWN IN CCW POSITION

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

PDB181-D



SHAFT SHOWN IN CCW POSITION

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.

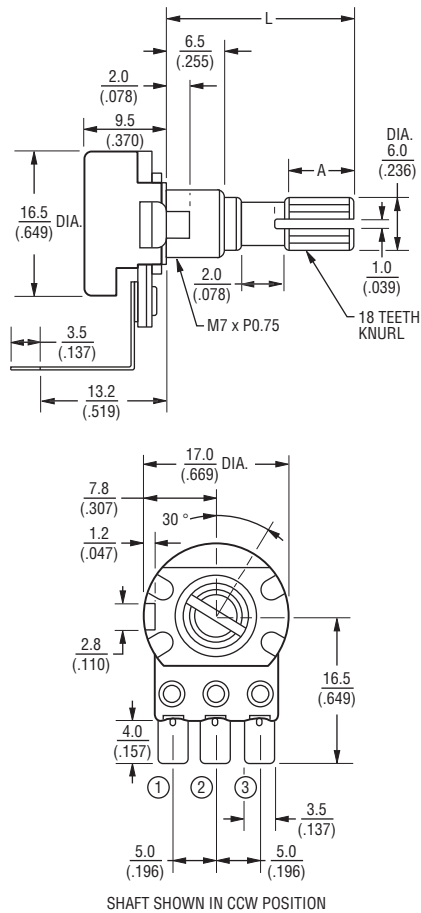
Users should verify actual device performance in their specific applications.

PDB18 Series - 17 mm Rotary Potentiometer

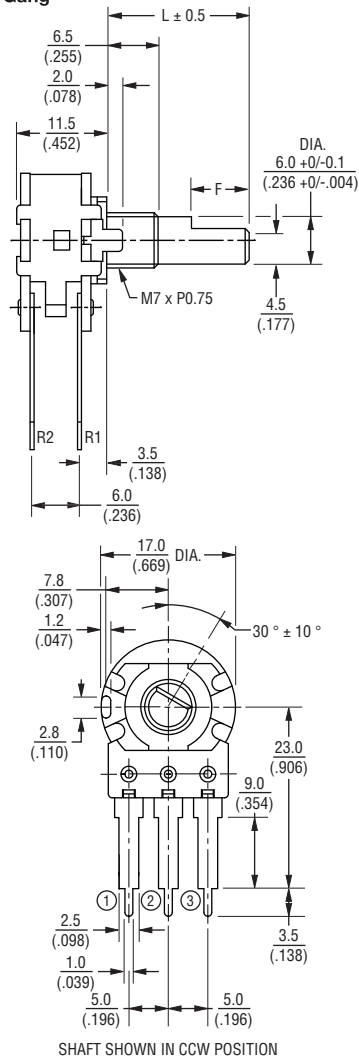
BOURNS®

Product Dimensions

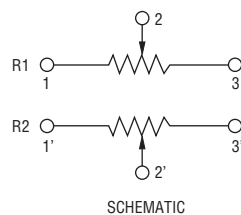
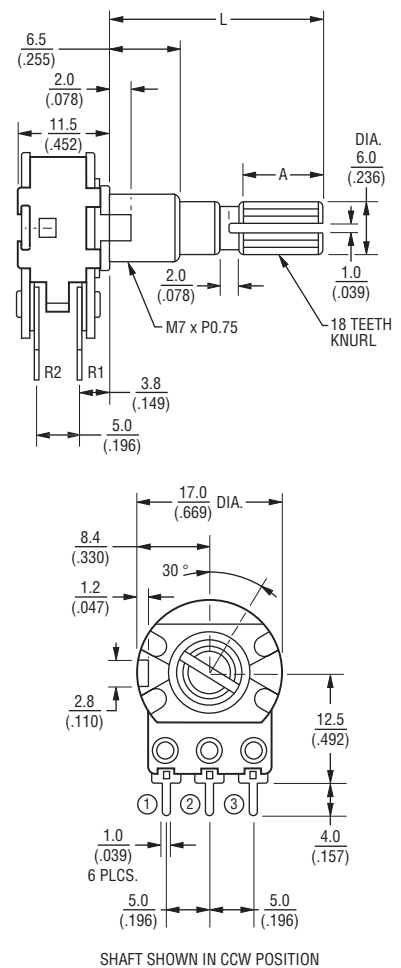
PDB181-P



**PDB182-B
Dual Gang**



**PDB182-K
Dual Gang**



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

Specifications are subject to change without notice.

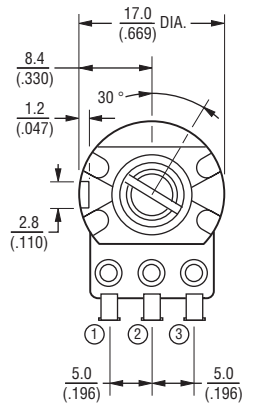
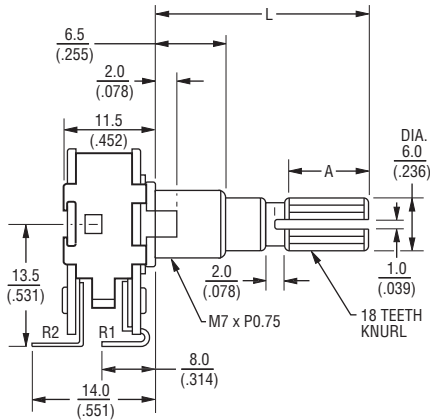
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

PDB18 Series - 17 mm Rotary Potentiometer

BOURNS®

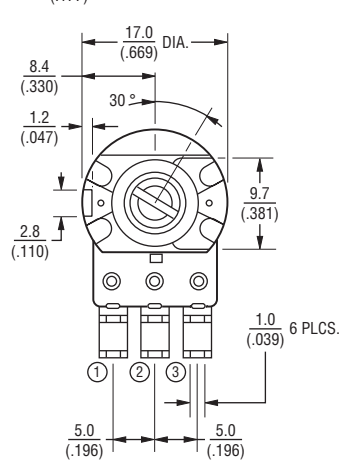
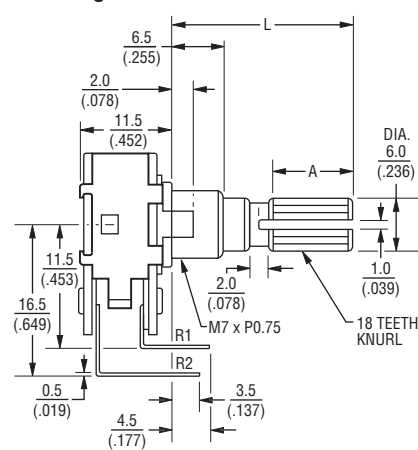
Product Dimensions

PDB182-E
Dual Gang



SHAFT SHOWN IN CCW POSITION

PDB182-D
Dual Gang



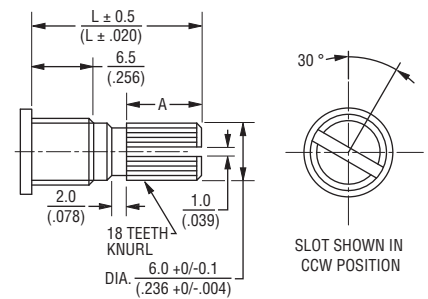
SHAFT SHOWN IN CCW POSITION

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

Shaft Styles

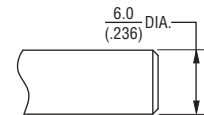
K Type

L	15 (.591)	18 (.709)	20 (.787)	25 (.984)	30 (1.181)
A	6.5 (.256)	6.5 (.256)	11.5 (.453)	14 (.551)	19 (.748)



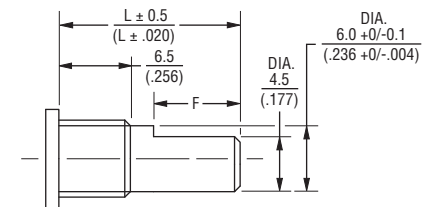
P Type

L	20 (.787)	25 (.984)	30 (1.181)
---	--------------	--------------	---------------



F Type

L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)	35 (1.378)
F	7 (.276)	12 (.472)	12 (.472)	12 (.472)	12 (.472)



Specifications are subject to change without notice.

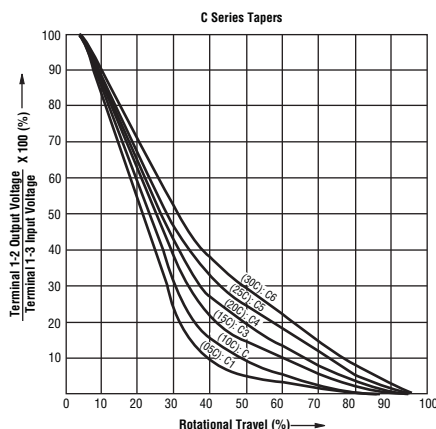
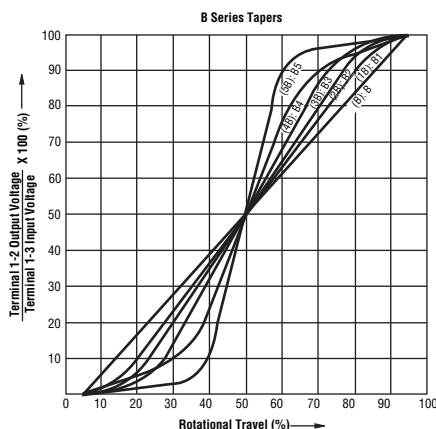
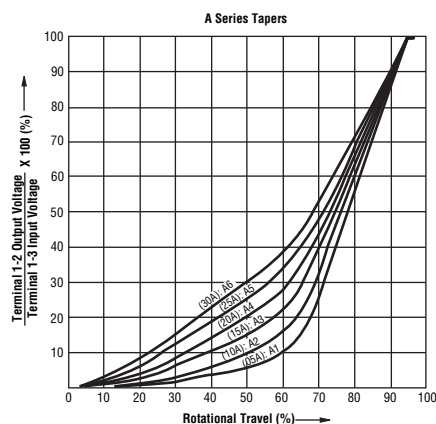
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

PDB18 Series - 17 mm Rotary Potentiometer

BOURNS®

Tapers



How To Order

PDB18 1 - K 4 25 K - 103 A1

Model _____

Number of Sections _____

- 1 = Single Section
- 2 = Dual Section

Terminal Configuration (Pin Layout) _____

(see individual drawings)

- K = PC Pins vertical/Down Facing (12.5 mm)
- A = PC Pins vertical/Down Facing (18.0 mm)
- B = PC Pins vertical/Down Facing (23.0 mm)
- E = Solder Lugs Rear Facing
- P = PC Pins Rear Facing
- D = PC Pins Front Facing

Detent Option _____

- 2 = Center Detent
- 4 = No Detents
- 5 = 10 Detent / 11 Position
- 6 = 20 Detent / 21 Position
- 7 = 30 Detent / 31 Position
- 8 = 40 Detent / 41 Position

Standard Shaft Length _____

- 15 = 15 mm
- 18 = 18 mm
- 20 = 20 mm
- 25 = 25 mm
- 30 = 30 mm

Shaft Style _____

- F = Metal Flatted Shaft
- K = Metal Knurled Type Shaft 18 Toothed Serration Type
- P = Metal Plain Shaft

Resistance Code (See Table) _____

Resistance Taper (See Taper Charts) _____

Taper Series followed by Curve Number

Other styles available.

Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

REV. 03/13

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.