



**THE DATASHEET OF
PDB181-K420K-103B**





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

Additional Information

Click these links for more information:



PRODUCT SELECTOR TECHNICAL LIBRARY INVENTORY SAMPLES CONTACT

Electrical Characteristics

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

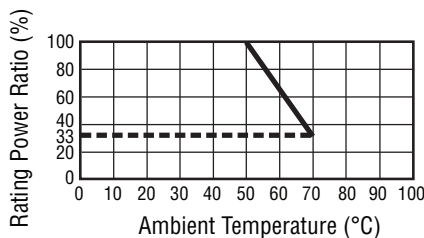
Environmental Characteristics

Operating Temperature... -10 °C to +50 °C
 Power Rating
 Linear 0.2 watt
 Dual 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 ° ±5 °
 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



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

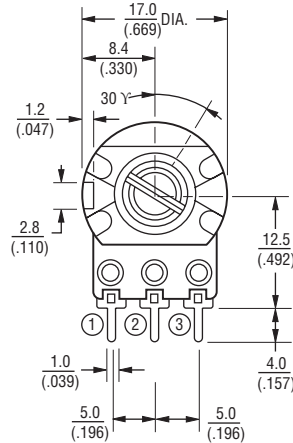
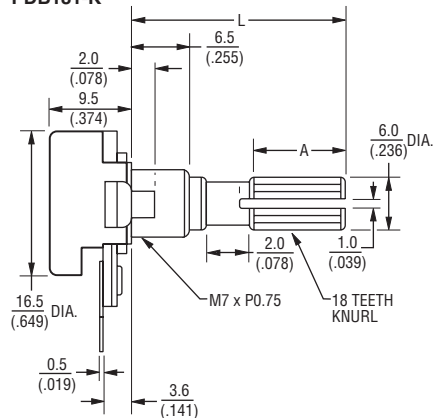
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Users should verify actual device performance in their specific applications.

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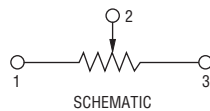
Product Dimensions

PDB181-K

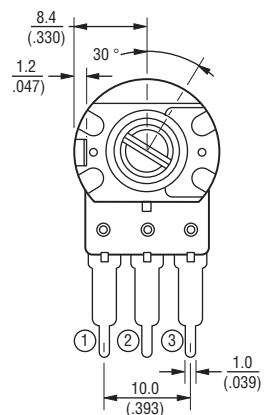
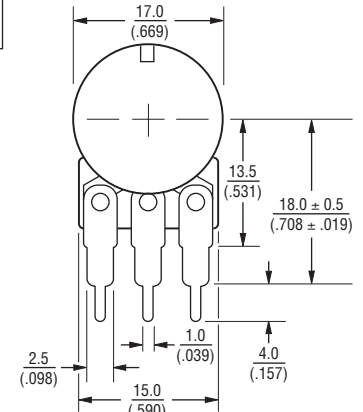
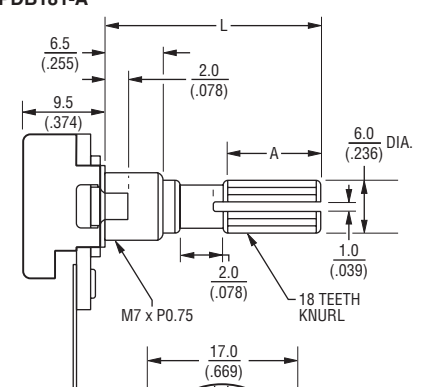


SHAFT SHOWN IN CCW POSITION

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



PDB181-A



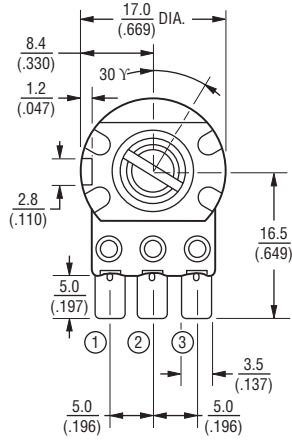
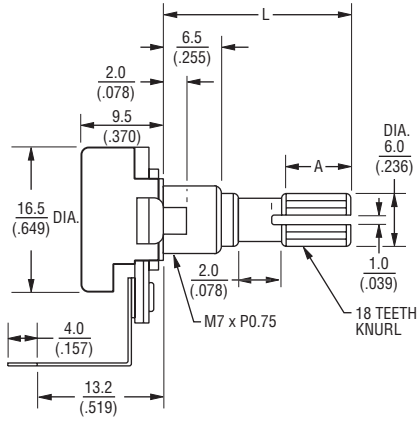
SHAFT SHOWN IN CCW POSITION

PDB18 Series - 17 mm Rotary Potentiometer

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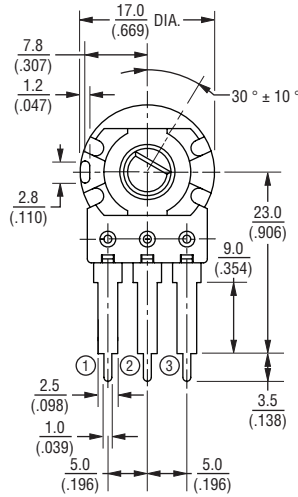
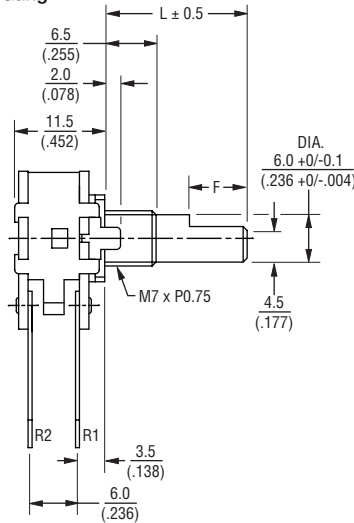
Product Dimensions

PDB181-P



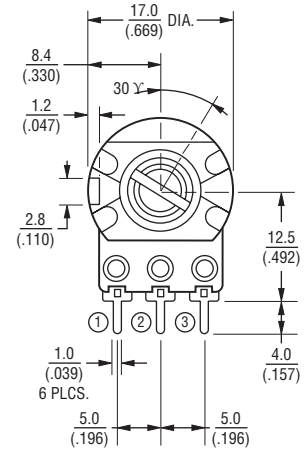
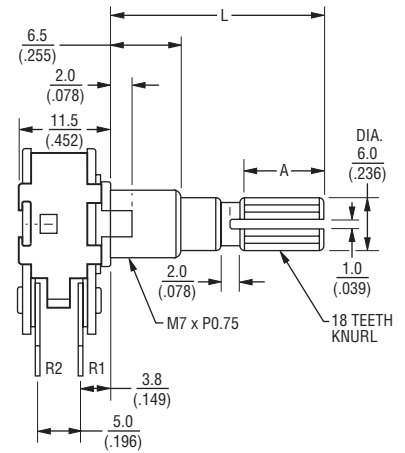
SHAFT SHOWN IN CCW POSITION

**PDB182-B
Dual Gang**

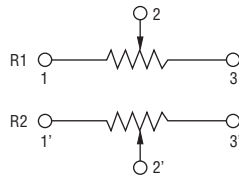


SHAFT SHOWN IN CCW POSITION

**PDB182-K
Dual Gang**



SHAFT SHOWN IN CCW POSITION



SCHEMATIC

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

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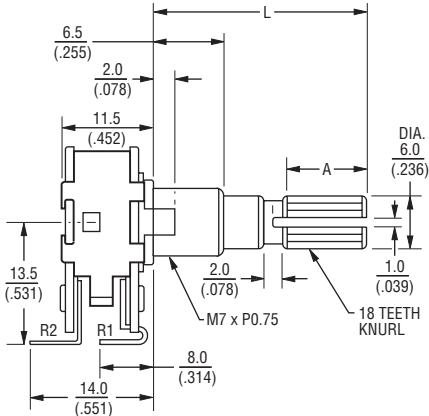
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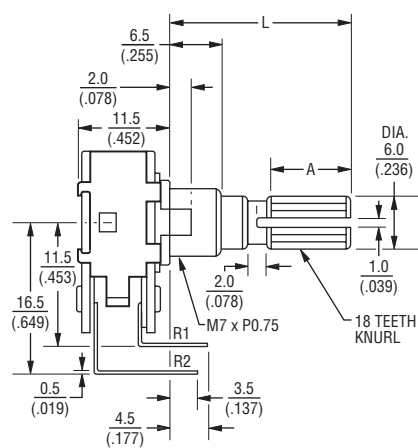
Product Dimensions

**PDB182-E
Dual Gang**



SHAFT SHOWN IN CCW POSITION

**PDB182-D
Dual Gang**



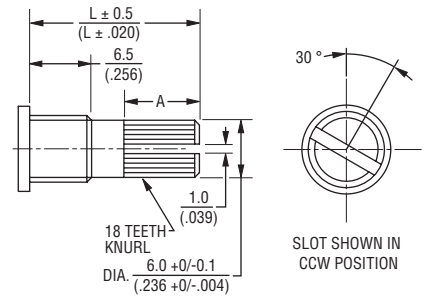
SHAFT SHOWN IN CCW POSITION

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

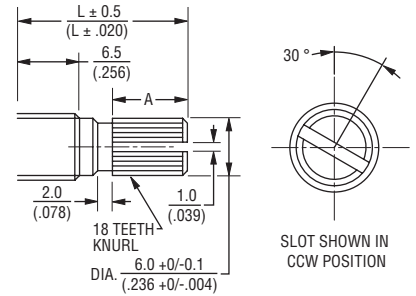
Shaft Styles

K Type

L	15 (.591)	18 (.709)	20 (.787)
A	6.5 (.256)	9.5 (.374)	11.5 (.453)

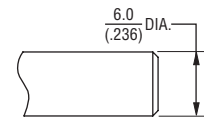


L	25 (.984)	30 (1.181)
A	14 (.551)	19 (.748)



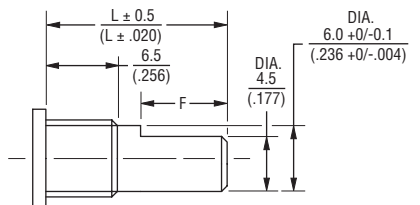
P Type

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



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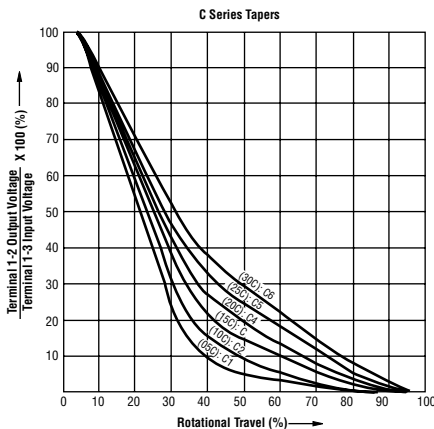
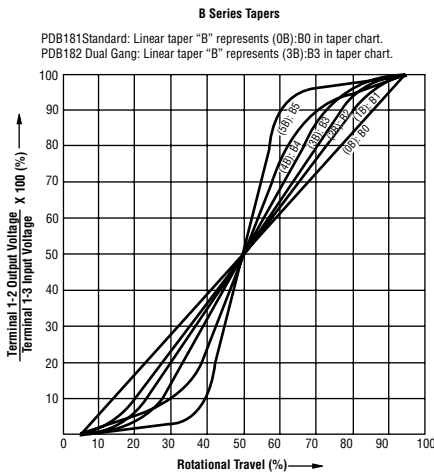
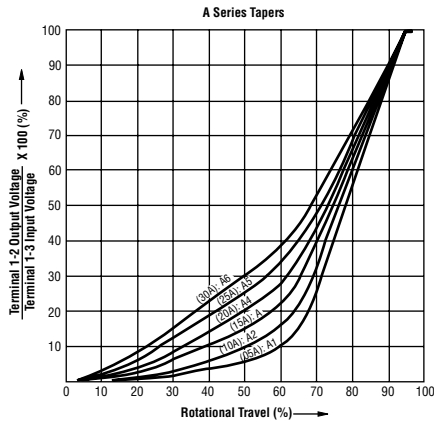
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PDB18 Series - 17 mm Rotary Potentiometer

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. 04/24

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