

## Features

- Single and dual section control
- Metal shaft styles
- Carbon element
- Center detent option
- 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..... ±20 %  
 Residual Resistance..... 1 % max.

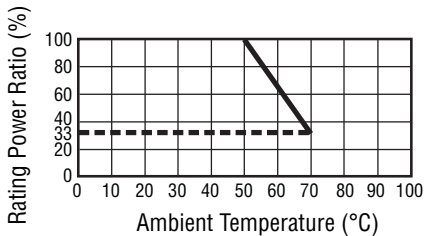
### Environmental Characteristics

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

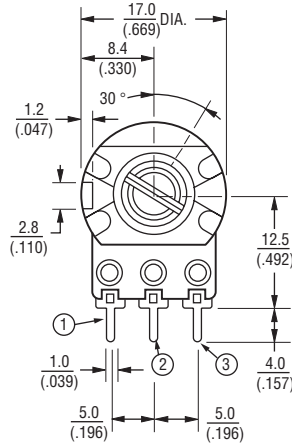
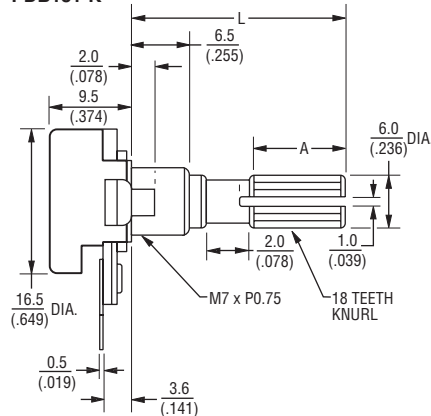
Mechanical Angle..... 300 ° ±5 °  
 Rotational Torque ..... 10 to 150 gf-cm  
 Detent Torque..... 150 to 500 g-cm  
 Stop Strength..... 5 kg-cm min.  
 Rotational Life ..... 15,000 cycles  
 Soldering Condition  
 ..... 260 °C max. within 3 seconds  
 Hardware ..... One flat washer and  
 mounting nut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

### Derating Curve



### Product Dimensions

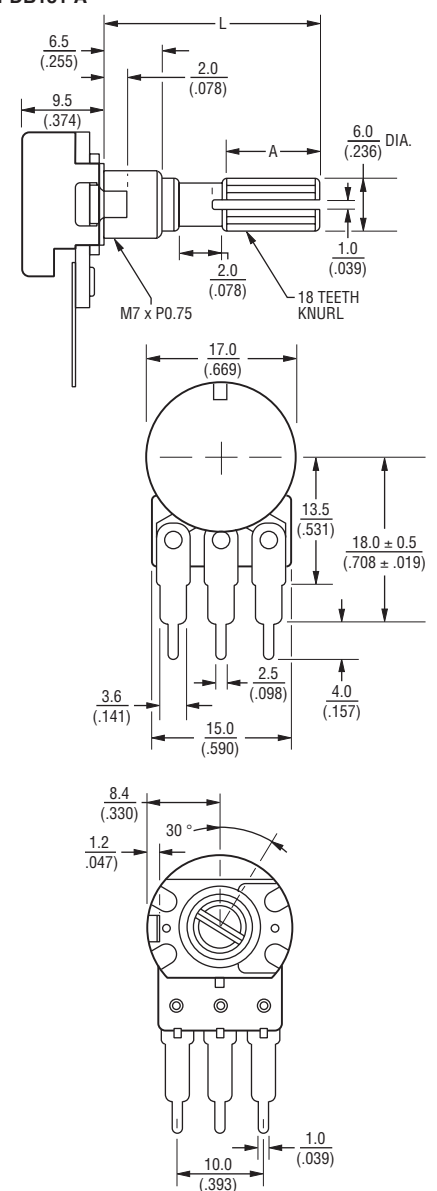
PDB181-K



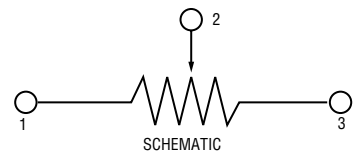
SHAFT SHOWN IN CCW POSITION

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

PDB181-A



SHAFT SHOWN IN CCW POSITION



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

## Additional Features

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

## Applications

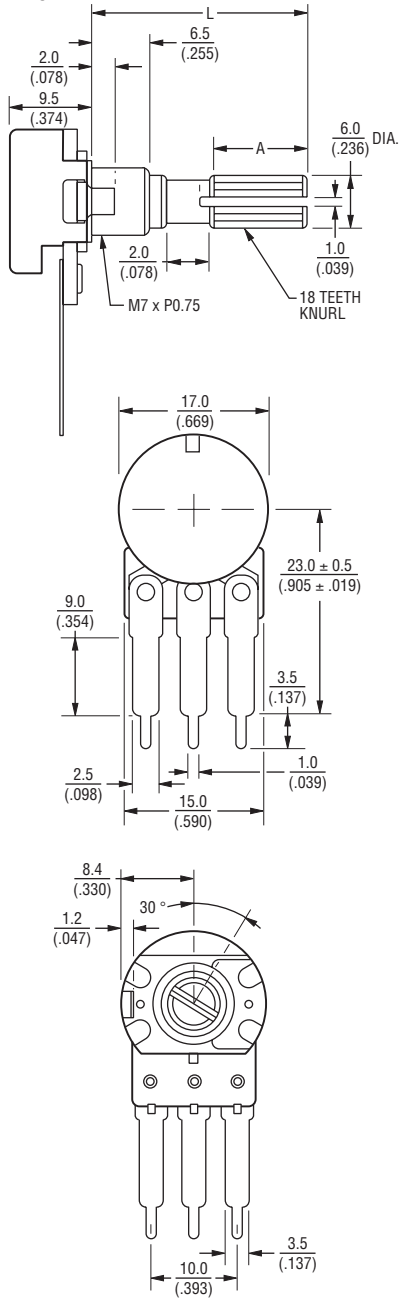
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

# PDB18 Series - 17 mm Rotary Potentiometer

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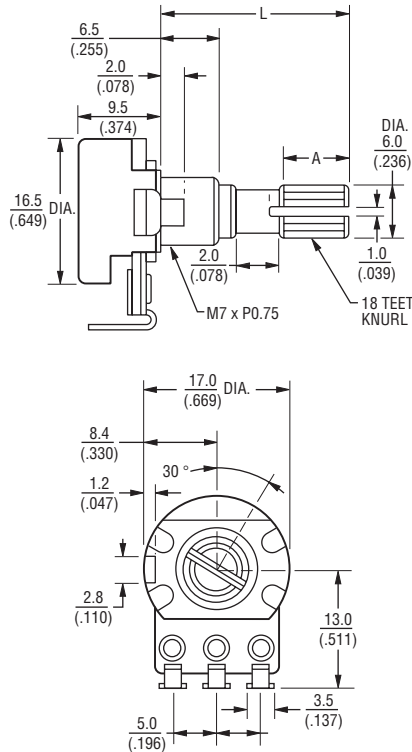
## Product Dimensions

PDB181-B



SHAFT SHOWN IN CCW POSITION

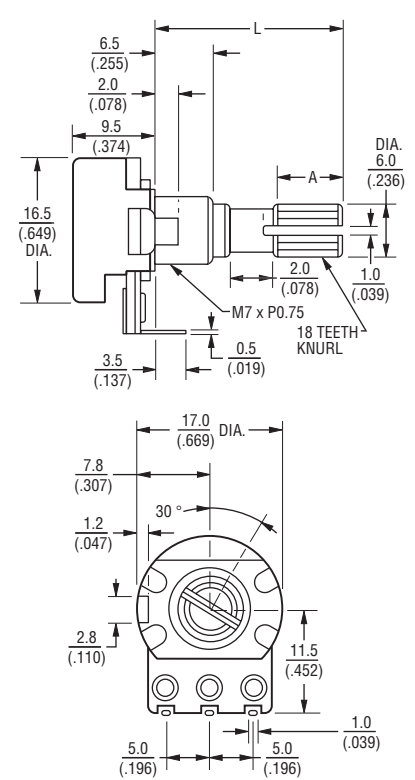
PDB181-E



SHAFT SHOWN IN CCW POSITION

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

PDB181-D



SHAFT SHOWN IN CCW POSITION

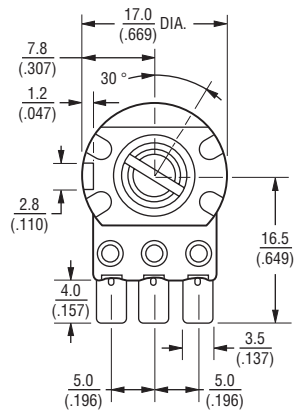
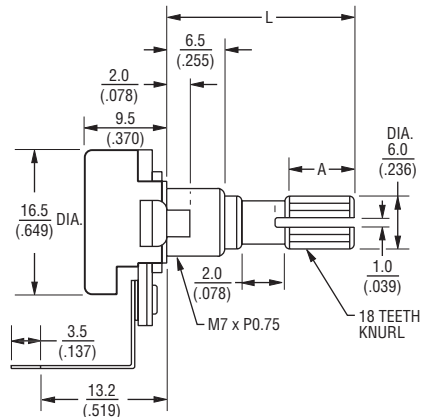
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# PDB18 Series - 17 mm Rotary Potentiometer

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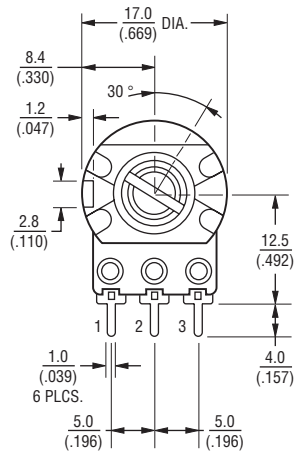
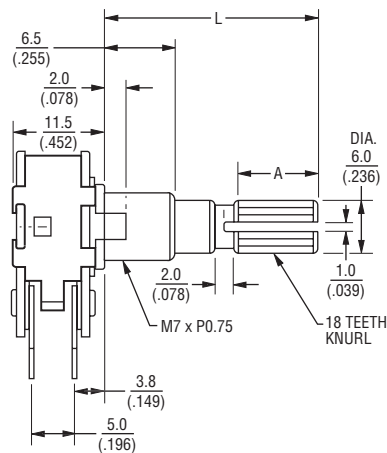
## Product Dimensions

**PDB181-P**

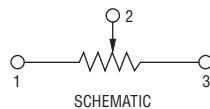


SHAFT SHOWN IN CCW POSITION

**PDB182-K  
Dual Gang**

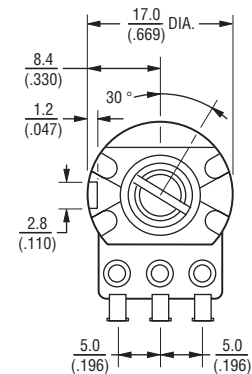
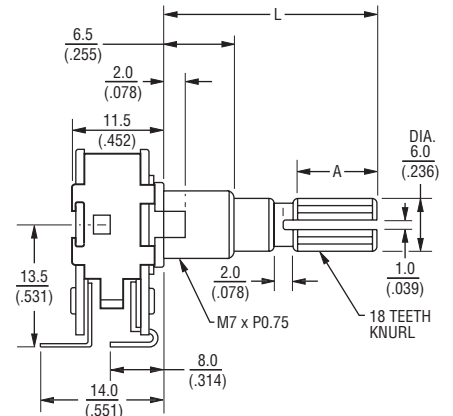


SHAFT SHOWN IN CCW POSITION



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

**PDB182-E  
Dual Gang**



SHAFT SHOWN IN CCW POSITION

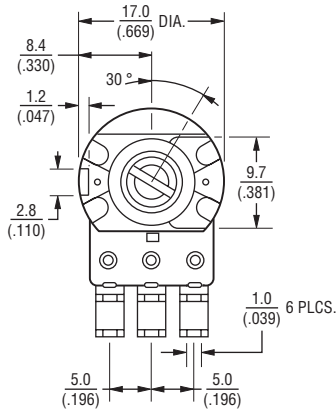
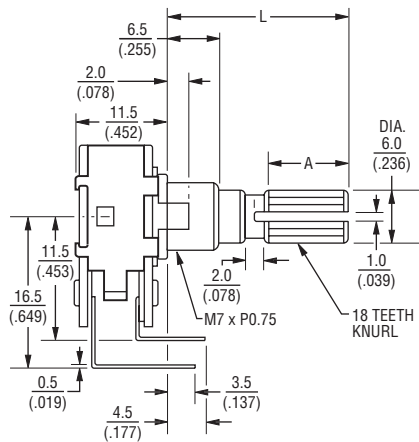
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# PDB18 Series - 17 mm Rotary Potentiometer

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## Product Dimensions

PDB182-D  
Dual Gang



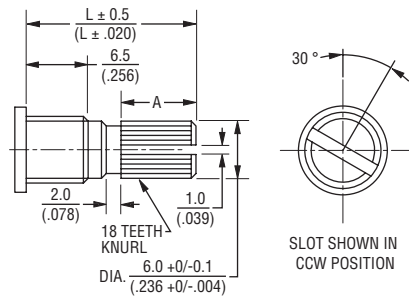
SHAFT SHOWN IN CCW POSITION

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

## Shaft Styles

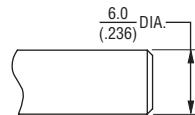
### K Type

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)



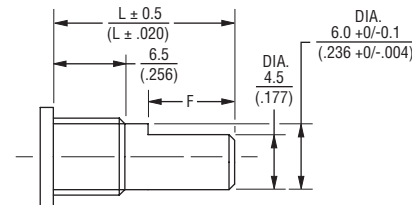
### P Type

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



## 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 = 11 Detents  
 • 6 = 21 Detents  
 • 7 = 31 Detents  
 • 8 = 41 Detents

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

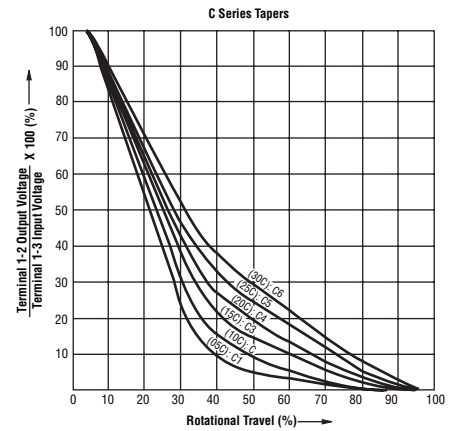
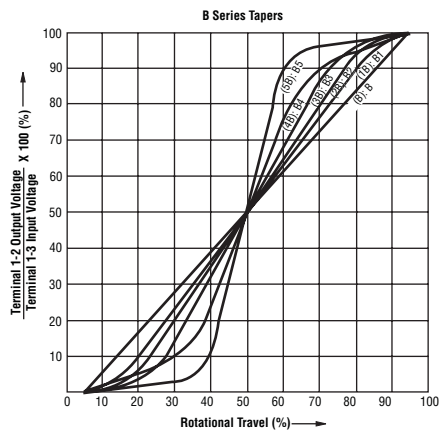
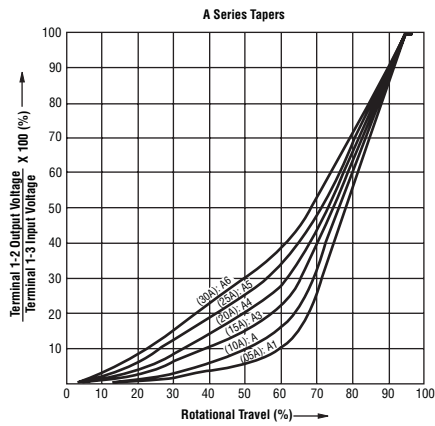
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

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## Tapers



REV. 11/10

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