

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.

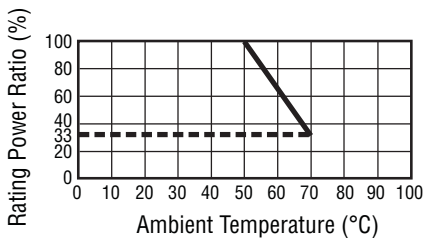
Environmental Characteristics

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

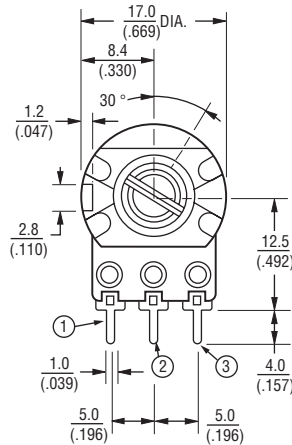
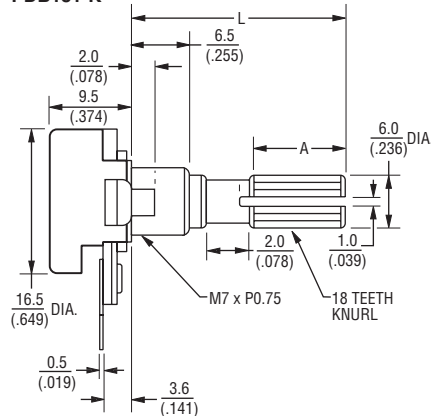
Mechanical Angle..... 300 ° ±5 °
 Rotational Torque 10 to 150 gf-cm
 Detent Torque..... 150 to 500 g-cm
 Stop Strength..... 5 kg-cm min.
 Rotational Life 15,000 cycles
 Soldering Condition
 260 °C max. within 3 seconds
 Hardware One flat washer and
 mounting nut supplied per
 potentiometer with bushing

Derating Curve



Product Dimensions

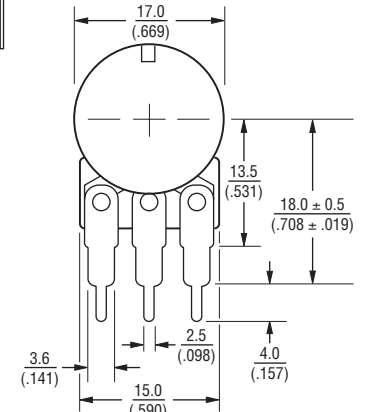
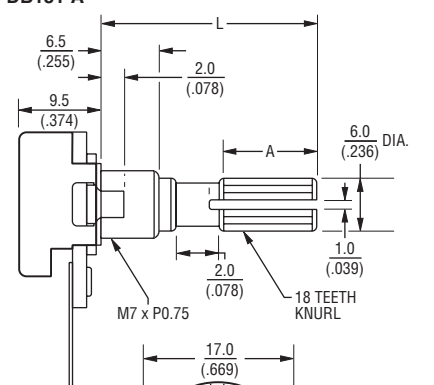
PDB181-K



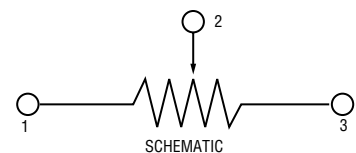
SHAFT SHOWN IN CCW POSITION

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

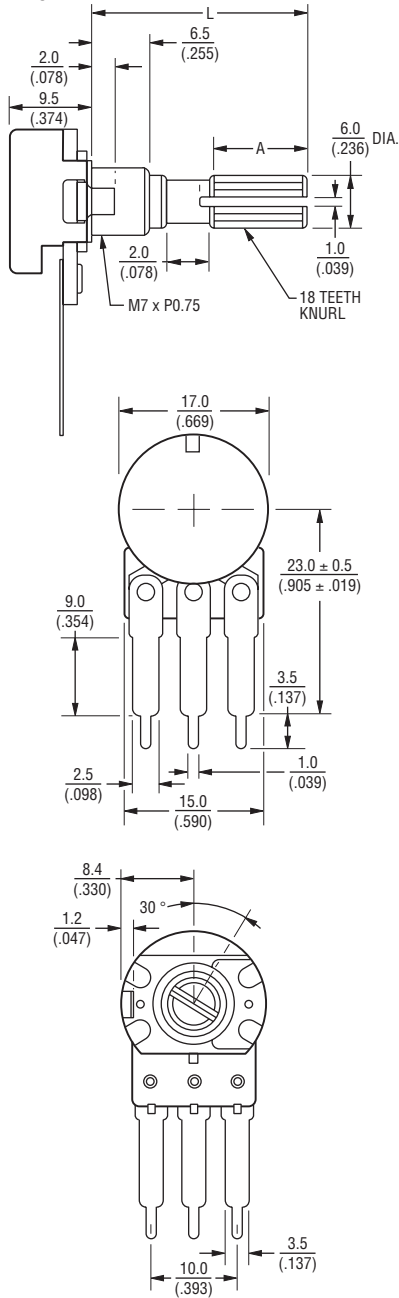
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

PDB18 Series - 17 mm Rotary Potentiometer

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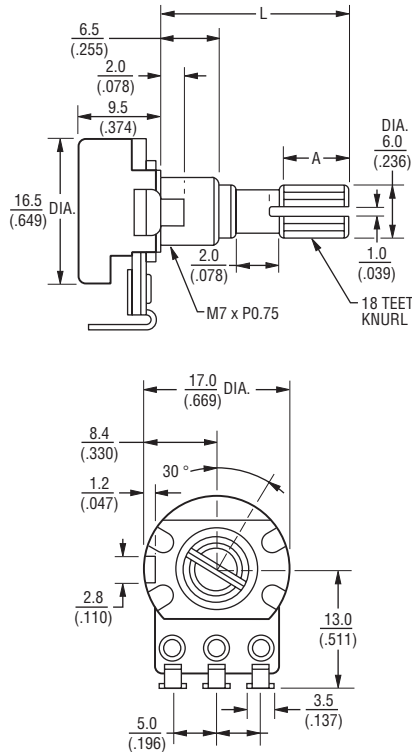
Product Dimensions

PDB181-B



SHAFT SHOWN IN CCW POSITION

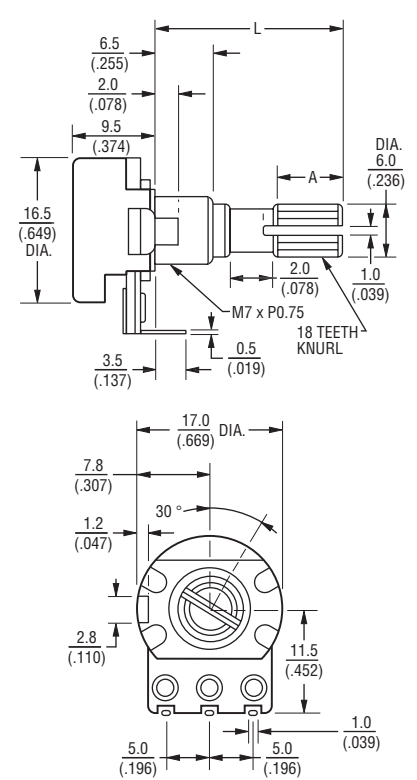
PDB181-E



SHAFT SHOWN IN CCW POSITION

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

PDB181-D



SHAFT SHOWN IN CCW POSITION

Specifications are subject to change without notice.

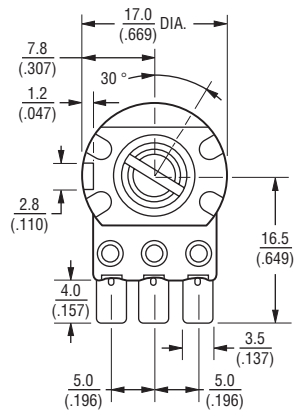
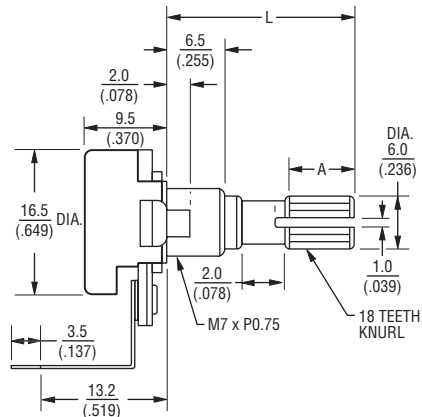
Customers should verify actual device performance in their specific applications.

PDB18 Series - 17 mm Rotary Potentiometer

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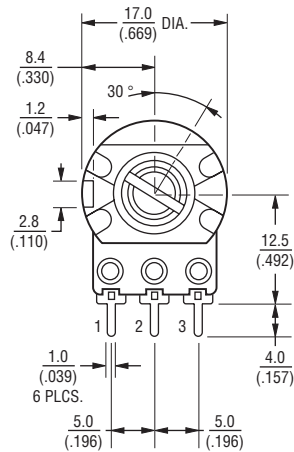
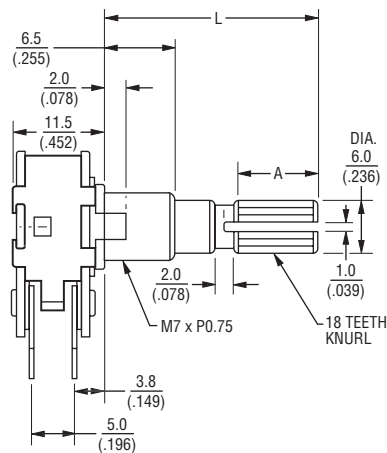
Product Dimensions

PDB181-P

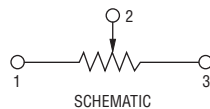


SHAFT SHOWN IN CCW POSITION

**PDB182-K
Dual Gang**



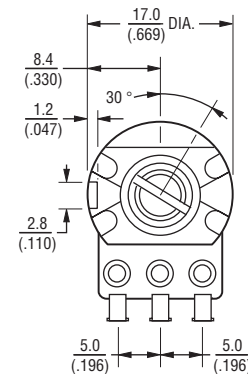
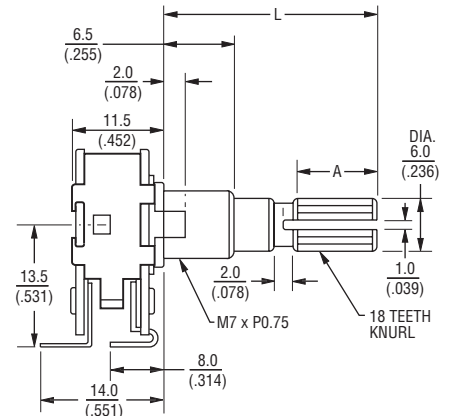
SHAFT SHOWN IN CCW POSITION



SCHEMATIC

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

**PDB182-E
Dual Gang**



SHAFT SHOWN IN CCW POSITION

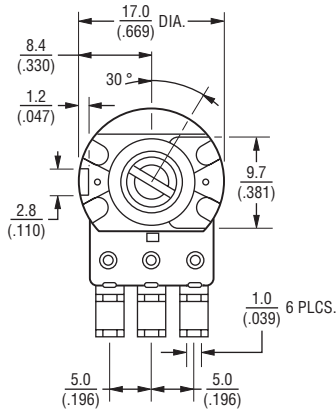
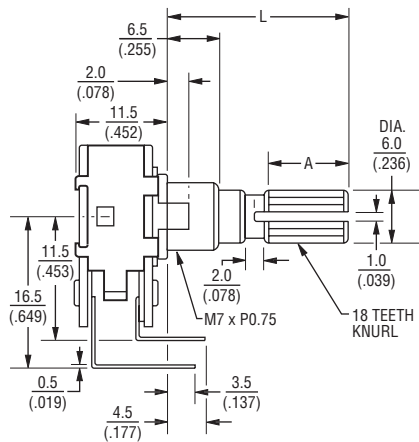
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PDB18 Series - 17 mm Rotary Potentiometer

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Product Dimensions

PDB182-D
Dual Gang



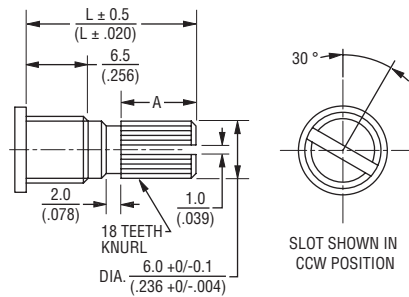
SHAFT SHOWN IN CCW POSITION

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

Shaft Styles

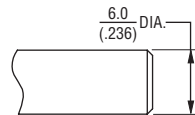
K Type

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)



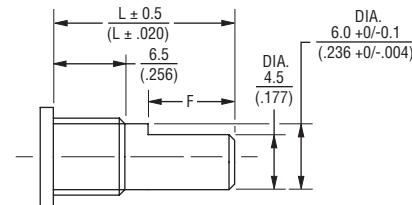
P Type

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

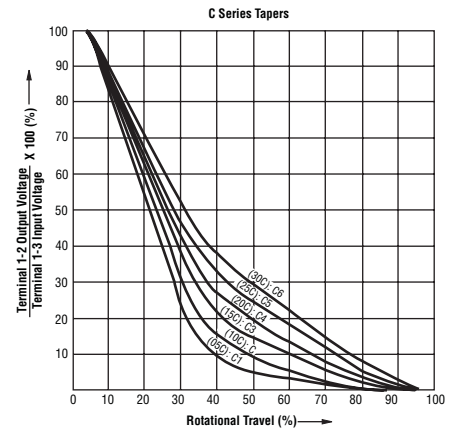
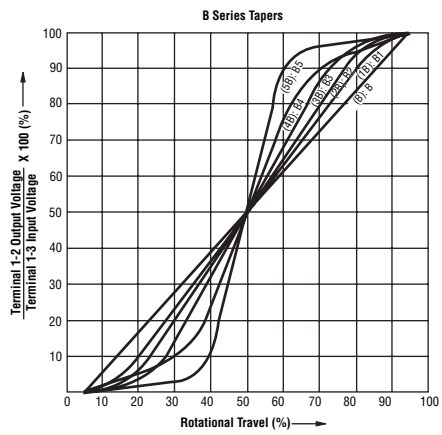
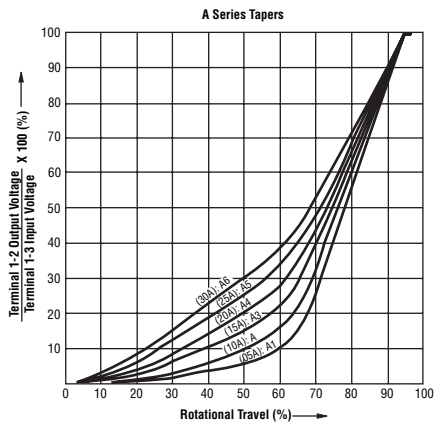
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

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Tapers



REV. 11/10

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