



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.

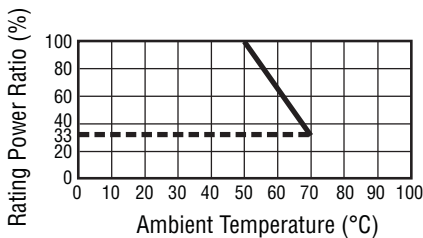
Environmental Characteristics

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

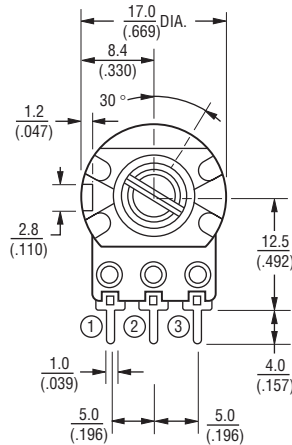
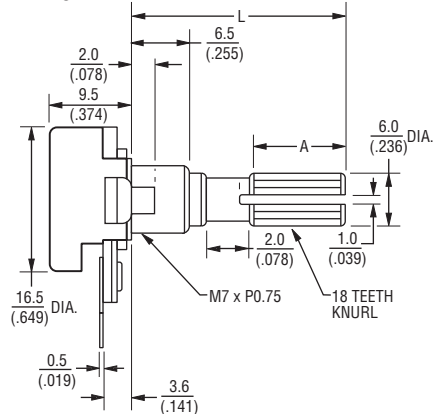
Mechanical Angle..... $300^{\circ} \pm 5^{\circ}$
Rotational Torque..... 10 to 150 gf-cm
Detent Torque..... 150 to 500 g-cm
Stop Strength..... 5 kg-cm min.
Rotational Life..... 15,000 cycles
Soldering Condition
..... 260°C max. within 3 seconds
Hardware..... One flat washer and
mounting nut supplied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

Derating Curve



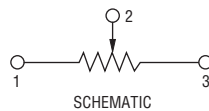
Product Dimensions

PDB181-K

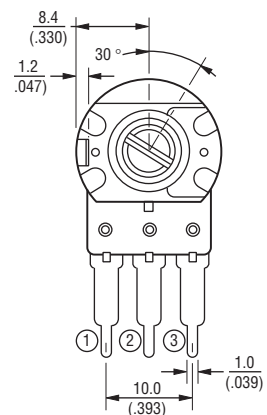
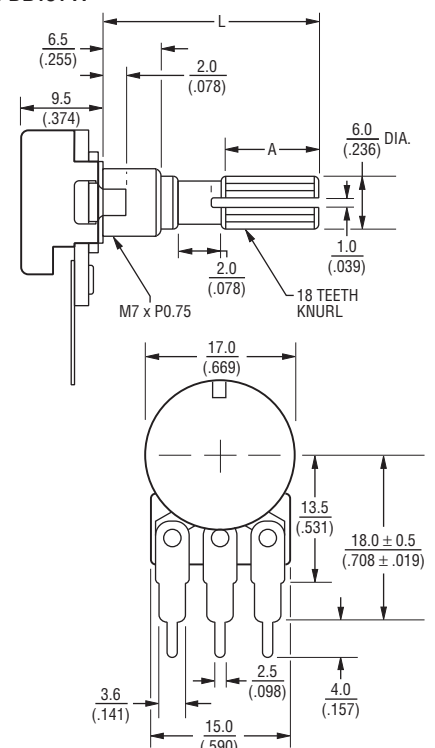


SHAFT SHOWN IN CCW POSITION

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



PDB181-A



SHAFT SHOWN IN CCW POSITION



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

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

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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

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

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PDB181-B



PDB181-E



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

PDB181-D



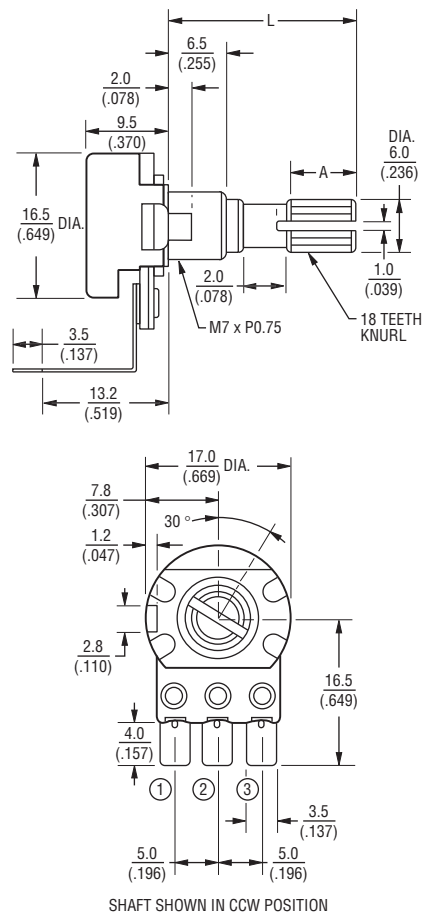
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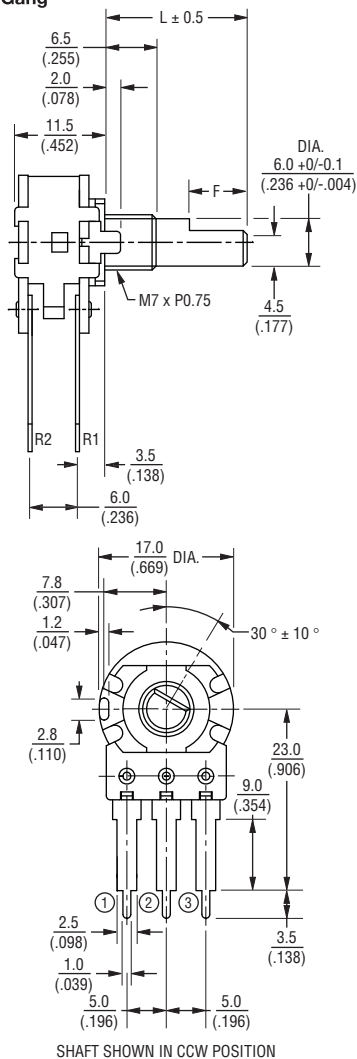
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Product Dimensions

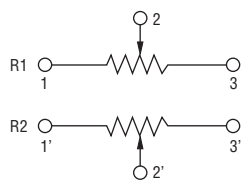
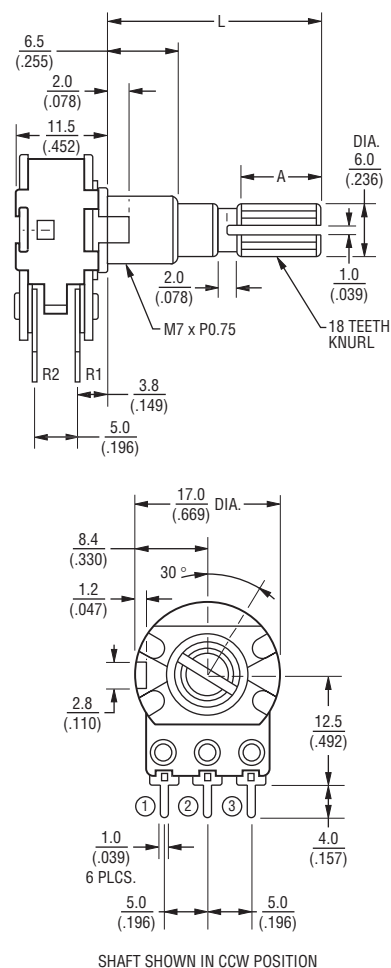
PDB181-P



**PDB182-B
Dual Gang**



**PDB182-K
Dual Gang**



SCHEMATIC

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

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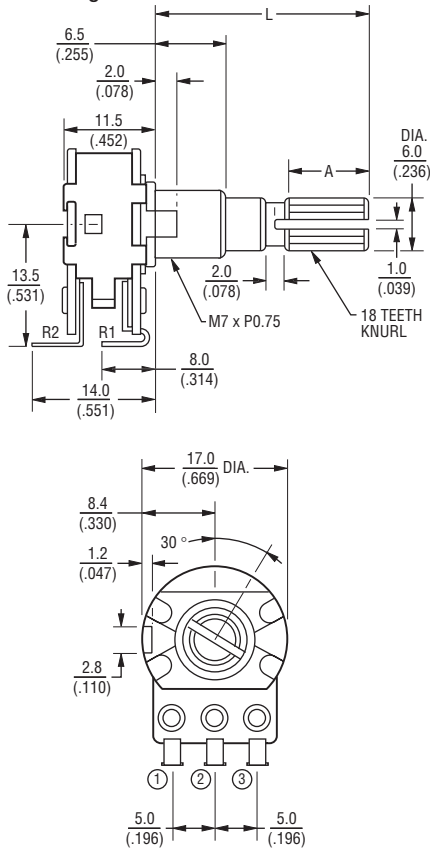
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PDB18 Series - 17 mm Rotary Potentiometer

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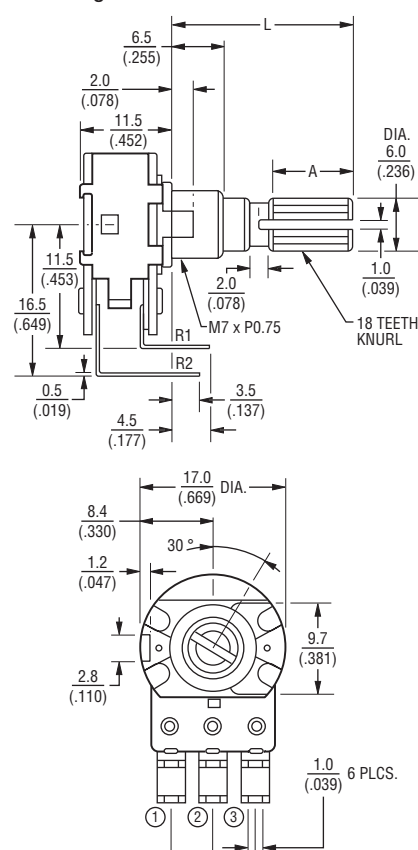
Product Dimensions

**PDB182-E
Dual Gang**



SHAFT SHOWN IN CCW POSITION

**PDB182-D
Dual Gang**



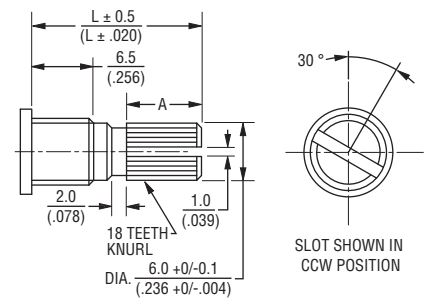
SHAFT SHOWN IN CCW POSITION

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

Shaft Styles

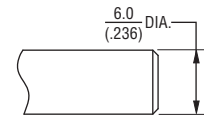
K Type

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



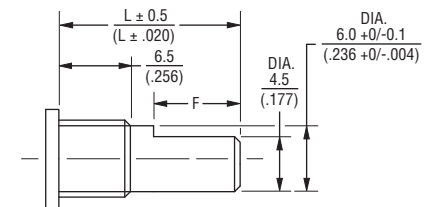
P Type

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)



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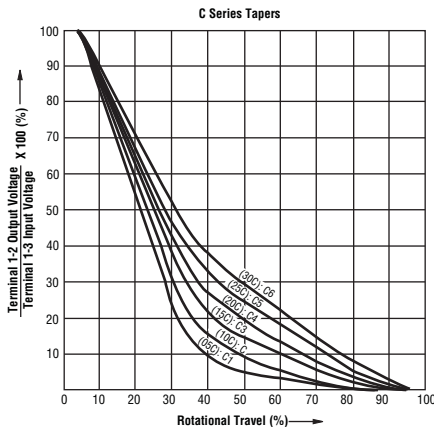
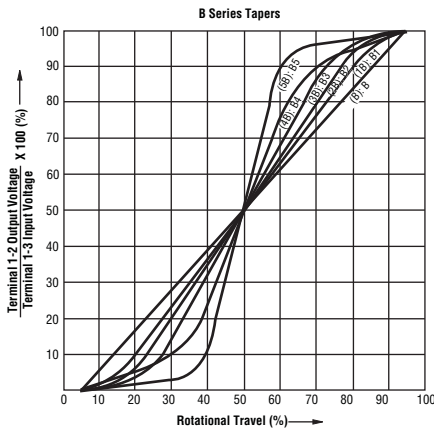
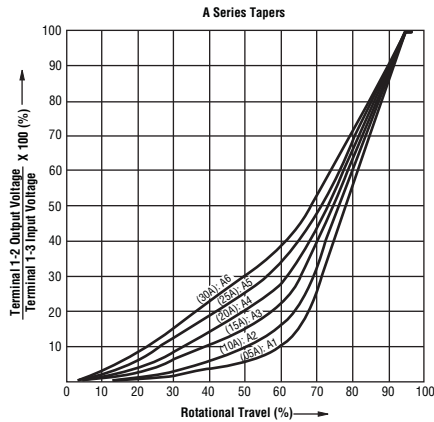
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PDB18 Series - 17 mm Rotary Potentiometer

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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

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REV. 10/19

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<u>PDB182-K230K-104A</u>	<u>PDB182-K230K-104B</u>	<u>PDB181-E420F-503B</u>	<u>PDB181-E420K-102B</u>	<u>PDB181-E420K-103B</u>
<u>PDB181-E420K-104B</u>	<u>PDB181-E420K-105B</u>	<u>PDB181-E420K-502B</u>	<u>PDB181-E420K-504B</u>	<u>PDB181-K220K-102B</u>
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