



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..... ±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

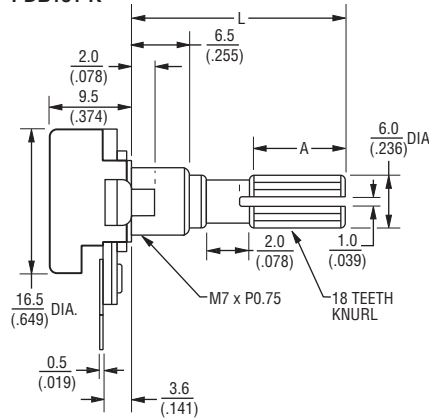
Mechanical Angle 300 ° ±5 °
 Rotational Torque 10 to 150 gf-cm
 Detent Torque 150 to 500 g-cm
 Stop Strength 5 kg-cm min.
 Rotational Life 15,000 cycles
 Soldering Condition
 260 °C max. within 3 seconds
 Hardware One flat washer and
 mounting nut supplied per
 potentiometer with bushing

Derating Curve



Product Dimensions

PDB181-K

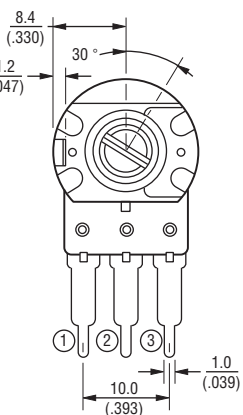
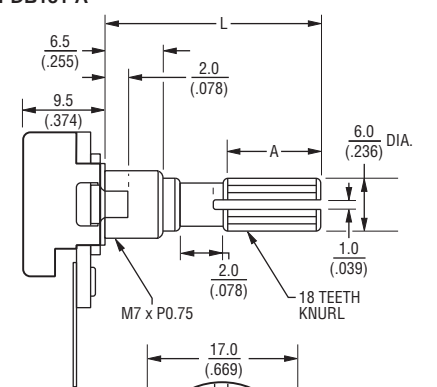


SHAFT SHOWN IN CCW POSITION

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



PDB181-A



SHAFT SHOWN IN CCW POSITION



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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Additional Features

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

Applications

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

PDB18 Series - 17 mm Rotary Potentiometer

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Product Dimensions

PDB181-B

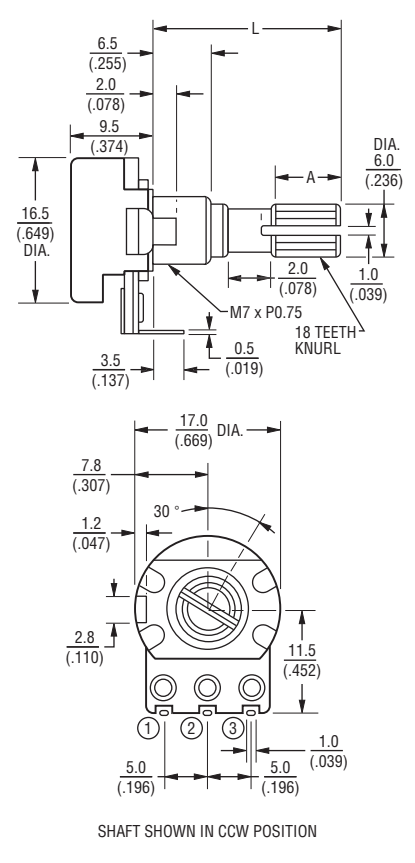


SHAFT SHOWN IN CCW POSITION

PDB181-E



PDB181-D



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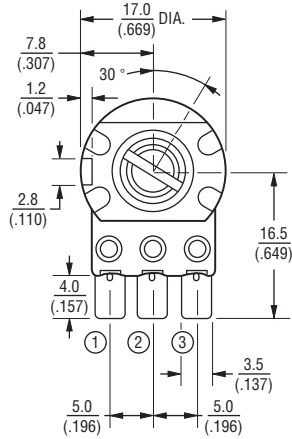
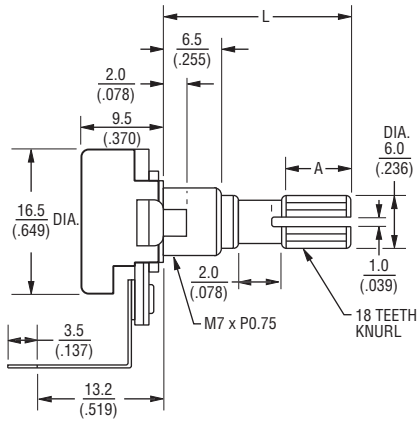
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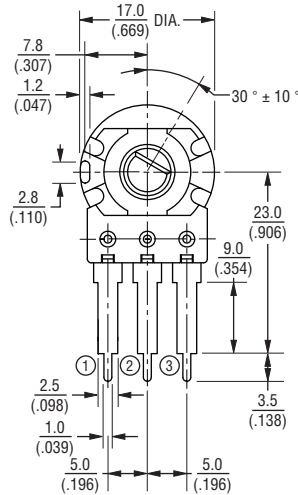
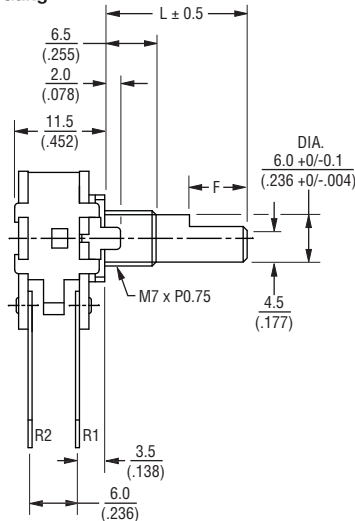
Product Dimensions

PDB181-P



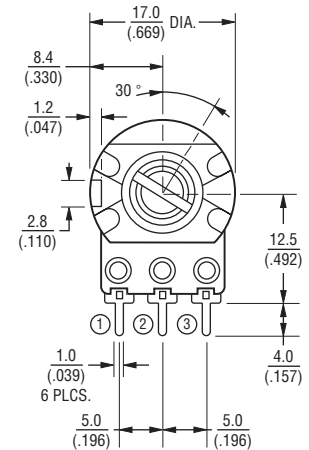
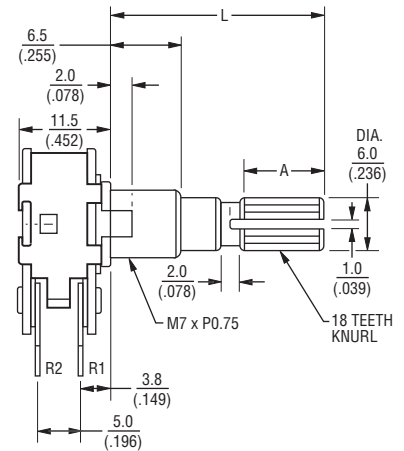
SHAFT SHOWN IN CCW POSITION

**PDB182-B
Dual Gang**

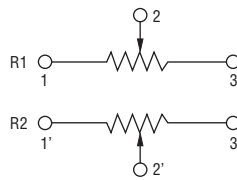


SHAFT SHOWN IN CCW POSITION

**PDB182-K
Dual Gang**



SHAFT SHOWN IN CCW POSITION



SCHEMATIC

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

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PDB18 Series - 17 mm Rotary Potentiometer

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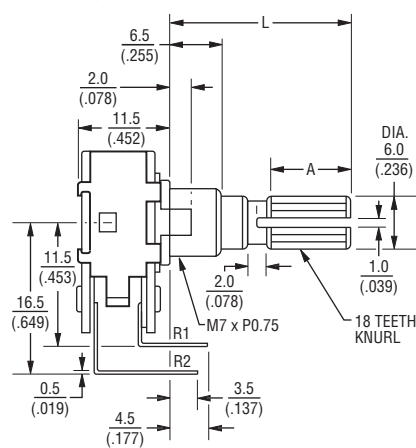
Product Dimensions

**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

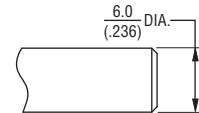
K Type

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



P Type

L	$\frac{20}{(.787)}$	$\frac{25}{(.984)}$	$\frac{30}{(1.181)}$
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F Type

L	$\frac{15}{(.591)}$	$\frac{20}{(.787)}$	$\frac{25}{(.984)}$	$\frac{30}{(1.181)}$	$\frac{35}{(1.378)}$
F	$\frac{7}{(.276)}$	$\frac{12}{(.472)}$	$\frac{12}{(.472)}$	$\frac{12}{(.472)}$	$\frac{12}{(.472)}$



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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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