

#### **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

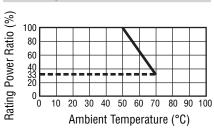
#### **Electrical Characteristics**

#### **Environmental Characteristics**

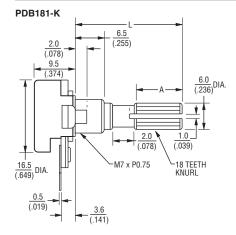
#### **Mechanical Characteristics**

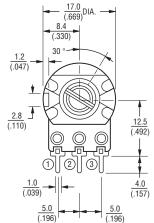
............260 °C max. within 3 seconds Hardware ............. One flat washer and mounting nut supplied per potentiometer with bushing

#### **Derating Curve**



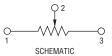
#### **Product Dimensions**

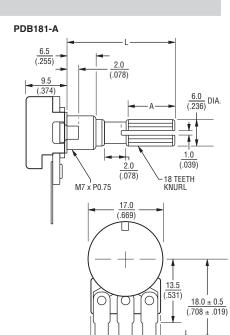


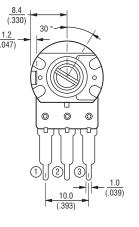


SHAFT SHOWN IN CCW POSITION

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







(.590)

4.0 (.157)

(.098

(.141)

SHAFT SHOWN IN CCW POSITION

 $<sup>^{\</sup>star}$ RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

### **Additional Features**

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

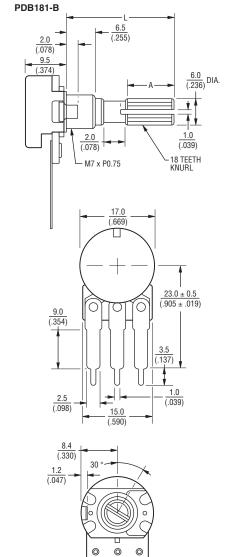
### **Applications**

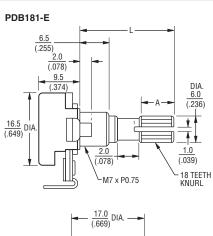
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/ synthesizers
- PCs/monitors
- Appliances

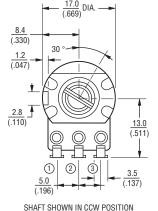
# PDB18 Series - 17 mm Rotary Potentiometer

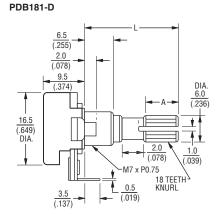
# BOURNS

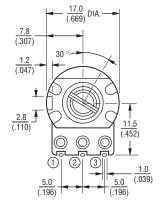
#### **Product Dimensions**











SHAFT SHOWN IN CCW POSITION

SHAFT SHOWN IN CCW POSITION

31

(.137)

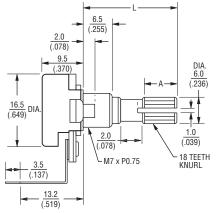
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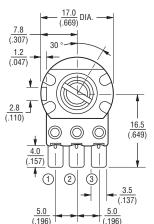
# PDB18 Series - 17 mm Rotary Potentiometer

## BOURNS

#### **Product Dimensions**

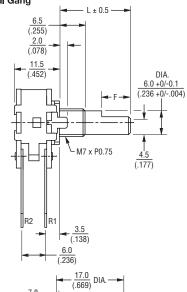
#### PDB181-P

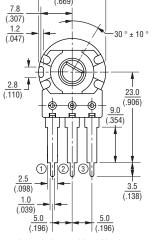




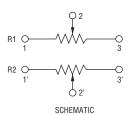
SHAFT SHOWN IN CCW POSITION

#### PDB182-B Dual Gang



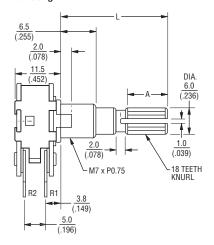


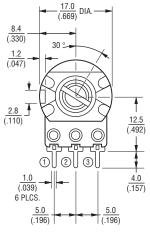
SHAFT SHOWN IN CCW POSITION



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

#### PDB182-K Dual Gang





SHAFT SHOWN IN CCW POSITION

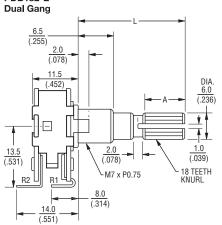
Specifications are subject to change without notice.

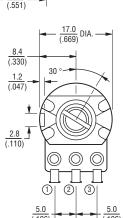
# PDB18 Series - 17 mm Rotary Potentiometer

## BOURNS

#### **Product Dimensions**

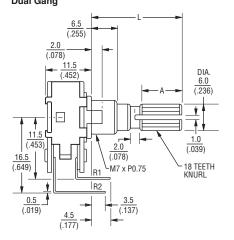
PDB182-E

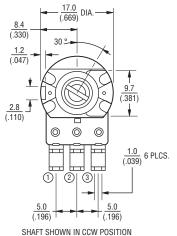




SHAFT SHOWN IN CCW POSITION

PDB182-D Dual Gang

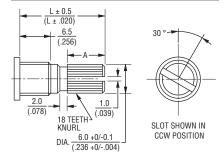




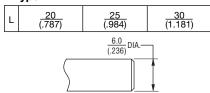
#### **Shaft Styles**

#### K Type

L	<u>15</u> (.591)	<u>18</u> (.709)	20 (.787)	25 (.984)	30 (1.181)
Α	<u>6.5</u> (.256)	<u>6.5</u> (.256)	11.5 (.453)	<u>14</u> (.551)	<u>19</u> (.748)

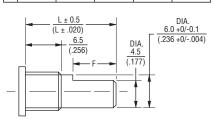


#### P Type

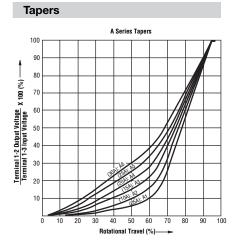


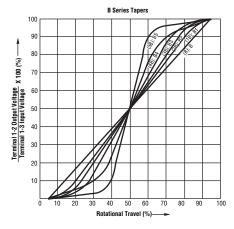
### F Type

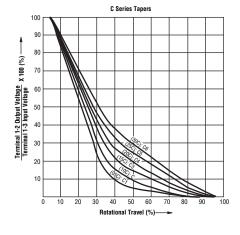
L	<u>15</u> (.591)	<u>20</u> (.787)	25 (.984)	30 (1.181)	35 (1.378)
F	<u>7</u> (.276)	<u>12</u> (.472)	<u>12</u> (.472)	<u>12</u> (.472)	<u>12</u> (.472)



# PDB18 Series - 17 mm Rotary Potentiometer







#### **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) PC Pins vertical/ Down Facing (12.5 mm) PC Pins vertical/ Down Facing (18.0 mm) PC Pins vertical Down Facing (23.0 mm) Solder Lugs Rear Facing PC Pins Rear Facing PC Pins Front Facing Detent Option • 2 = Center Detent • 4 = No Detents • 5 = 10 Detent / 11 Position

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			
.,220,000	1 .30			

Orian Otylo				
F = Metal Flatted Shaft				
<ul> <li>K = Metal Knurled Type Shaft</li> </ul>				
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				

• 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 mmShaft Style

Other styles available.

### REV. 03/13

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### Bourns:

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PDB182-K230K-104A PDB182-K230K-104B PDB181-E420F-503B PDB181-E420K-102B PDB181-E420K-103B
PDB181-E420K-104B PDB181-E420K-105B PDB181-E420K-502B PDB181-E420K-504B PDB181-K220K-102B
PDB181-K220K-103B PDB181-K220K-104B PDB181-K220K-502B PDB181-K220K-503B PDB181-K420K-102B
PDB181-K420K-103B PDB181-K420K-104A PDB181-K420K-105B PDB181-K420K-203B PDB181-K420K-204B
PDB181-K420K-502B PDB181-K420K-504A PDB181-K425K-104B PDB182-K220K-102B PDB182-K220K-103B
PDB182-K220K-104B PDB182-K220K-502B PDB182-K220K-503A PDB182-K420K-203B PDB182-K420K-504A
PDB182-K420K-504B PDB181-A420K-103B PDB181-A425K-203B PDB181-K420K-104B PDB182-B230K-104A
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