

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

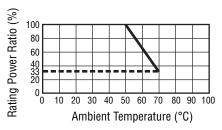
Electrical Characteristics

Environmental Characteristics

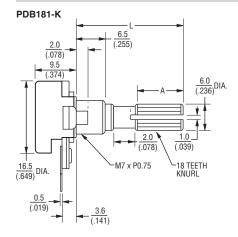
Mechanical Characteristics

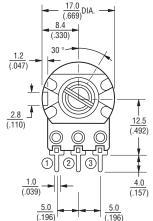
............260 °C max. within 3 seconds
Hardware One flat washer and
mounting nut supplied per
potentiometer with bushing

Derating Curve



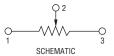
Product Dimensions

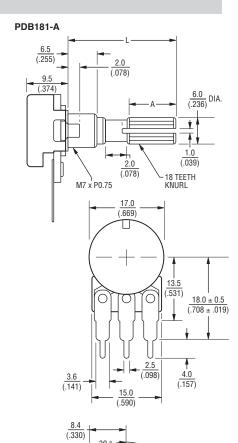




SHAFT SHOWN IN CCW POSITION

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







(.039)

0

Users should verify actual device performance in their specific applications.

^{*}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*

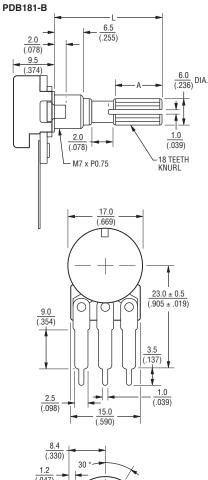
Applications

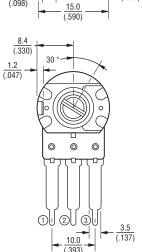
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/ synthesizers
- PCs/monitors
- Appliances

PDB18 Series - 17 mm Rotary Potentiometer

BOURNS

Product Dimensions





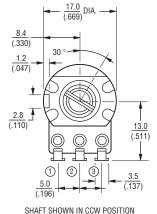
PDB181-E

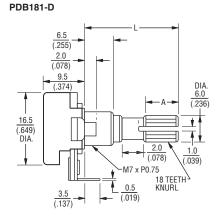
6.5
(.078)
9.5
(.374)

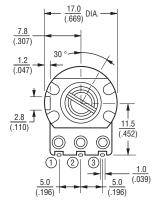
16.5
(.649)

DIA.
6.0
(.236)

1.0
(.039)
18 TEETH KNURL







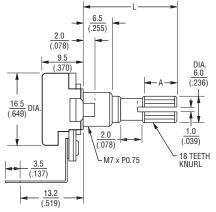
SHAFT SHOWN IN CCW POSITION

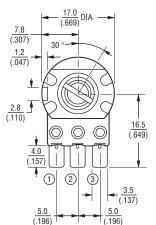
SHAFT SHOWN IN CCW POSITION

PDB18 Series - 17 mm Rotary Potentiometer

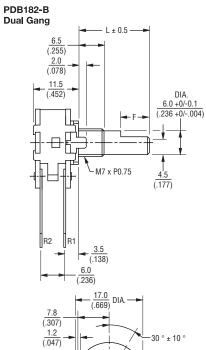
Product Dimensions

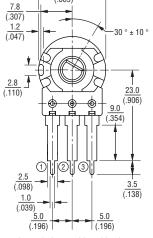
PDB181-P



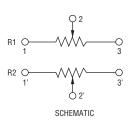


SHAFT SHOWN IN CCW POSITION



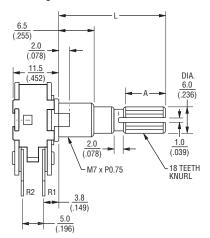


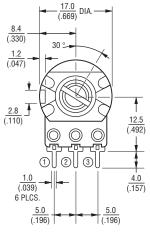
SHAFT SHOWN IN CCW POSITION



DIMENSIONS: (INCHES)

PDB182-K **Dual Gang**





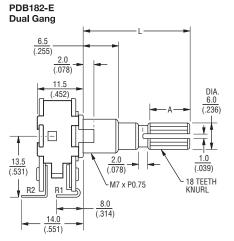
SHAFT SHOWN IN CCW POSITION

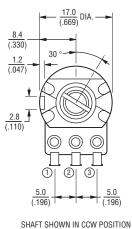
Specifications are subject to change without notice.

PDB18 Series - 17 mm Rotary Potentiometer

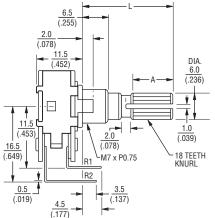
BOURNS

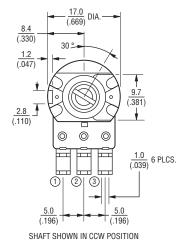
Product Dimensions





PDB182-D Dual Gang

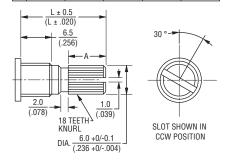




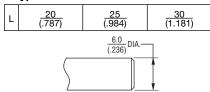
Shaft Styles

K Type

| L | <u>15</u> (.591) | <u>18</u> (.709) | <u>20</u> (.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) |

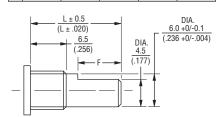


P Type

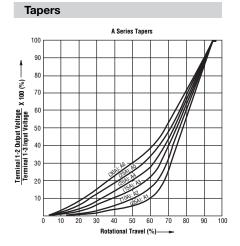


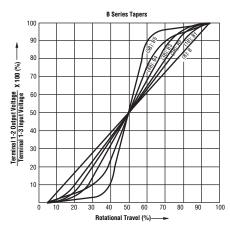
F Type

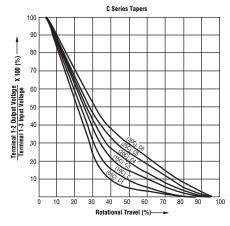
| L | <u>15</u> (.591) | <u>20</u> (.787) | 25 (.984) | 30 (1.181) | 35 (1.378) |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| F | <u>7</u> (.276) | <u>12</u> (.472) | <u>12</u> (.472) | <u>12</u> (.472) | <u>12</u> (.472) |



PDB18 Series - 17 mm Rotary Potentiometer







How To Order Α1

| PDB18 1 - K 4 | 1 25 | Κ- | 10 |)3 <i>A</i> |
|---|--------|----|----|-------------|
| 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 | n n | | | |
| 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 = 18 Toothed Serration • P = Metal Plain Shaft | | | | |
| Resistance Code (See Table) | | | | |
| D T (0 T | | | | |

| 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 | | |

| 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. | |
| | |

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.