**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: 0.125 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

**Product Dimensions**

**PDB181-K**

**PDB181-A**

**Derating Curve**

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

Product Dimensions

PDB181-B

- L: 6.5 (0.255)
- DIA.: 18 TEETH KNURL
- M7 x P0.75

PDB181-E

- L: 6.5 (0.255)
- DIA.: 6.0 (0.236)
- M7 x P0.75

PDB181-D

- L: 6.5 (0.255)
- DIA.: 6.0 (0.236)
- M7 x P0.75

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THE POTENTIOMETER SPECIALISTS®
Updated March 30, 2016
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.
**PDB18 Series - 17 mm Rotary Potentiometer**

**Product Dimensions**

**PDB182-E**  
Dual Gang

**DIMENSIONS: MM (INCHES)**

- 6.5 (0.256)
- 2.0 (0.078)
- 11.5 (0.453)
- 13.5 (0.531)
- 2.0 (0.078)
- 13.5 (0.531)
- 14.0 (0.551)
- 17.0 (0.669)
- 8.0 (0.315)
- 0.5 (0.019)
- 3.5 (0.137)
- 18 TEETH
- R1
- R2
- A

**SHAFT SHOWN IN CCW POSITION**

**PDB182-D**  
Dual Gang

**DIMENSIONS: MM (INCHES)**

- 6.5 (0.256)
- 2.0 (0.078)
- 11.5 (0.453)
- 13.5 (0.531)
- 2.0 (0.078)
- 11.5 (0.453)
- 16.5 (0.65)
- 8.0 (0.315)
- 0.5 (0.019)
- 4.5 (0.177)
- 3.5 (0.137)
- 18 TEETH
- R1
- R2
- A

**SHAFT SHOWN IN CCW POSITION**

**Shaft Styles**

**K Type**

- **L**
  - 15 (0.591)
  - 18 (0.709)
  - 20 (0.787)
  - 25 (0.984)
  - 30 (1.181)
- **A**
  - 6.5 (0.256)
  - 6.5 (0.256)
  - 11.5 (0.453)
  - 14.0 (0.551)
  - 19 (0.748)

**P Type**

- **L**
  - 20 (0.787)
  - 25 (0.984)
  - 30 (1.181)

**F Type**

- **L**
  - 15 (0.591)
  - 20 (0.787)
  - 25 (0.984)
  - 30 (1.181)
  - 35 (1.378)
- **F**
  - 7 (0.276)
  - 12 (0.472)
  - 12 (0.472)
  - 12 (0.472)
  - 12 (0.472)

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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

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
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<td>102</td>
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<td>502</td>
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<td>103</td>
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</table>

REV. 03/13
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