Features
- PC pin or solder lug terminals
- Push-pull switch option
- Metal shaft styles
- Carbon element
- Wide range of resistance tapers
- RoHS compliant*

**PDB183 - 17 mm Rotary Potentiometer w/Push-Pull Switch**

**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
  - Audio: 0.1 watt
- Maximum Operating Voltage:
  - Linear: 200 V
  - Audio: 150 V
- Sliding Noise: 47 mV max.

**Mechanical Characteristics**
- Mechanical Angle: 300 ° ±5 °
- Rotational Torque: 30 to 100 g-cm
- Stop Strength: 5 kg-cm min.
- Rotational Life: 15,000 cycles
- Switch Life: 15,000 cycles
- Switch Type: DPDT
- Switch Travel: 4.3 ± 0.2 mm (0.169 ± .008 in.)
- Soldering Condition: 260 °C max. within 3 seconds
- Hardware: One flat washer and mounting nut supplied per potentiometer with bushing

**Derating Curve**

**Standard Resistance Table**

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>102</td>
</tr>
<tr>
<td>2,000</td>
<td>202</td>
</tr>
<tr>
<td>5,000</td>
<td>502</td>
</tr>
<tr>
<td>10,000</td>
<td>103</td>
</tr>
<tr>
<td>20,000</td>
<td>203</td>
</tr>
<tr>
<td>50,000</td>
<td>503</td>
</tr>
<tr>
<td>100,000</td>
<td>104</td>
</tr>
<tr>
<td>200,000</td>
<td>204</td>
</tr>
<tr>
<td>500,000</td>
<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

### Applications
- Electric guitars
- Amplifiers/mixers/drum machines/synthesizers

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**PDB183 - 17 mm Rotary Potentiometer w/Push-Pull Switch**

#### Product Dimensions

**PDB183-S**

![Product Dimensions Diagram]

#### Tapers

**A Series Tapers**

<table>
<thead>
<tr>
<th>L</th>
<th>20</th>
<th>25</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

**B Series Tapers**

<table>
<thead>
<tr>
<th>L</th>
<th>20</th>
<th>25</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

**C Series Tapers**

<table>
<thead>
<tr>
<th>L</th>
<th>20</th>
<th>25</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>
PDB183 - 17 mm Rotary Potentiometer w/Push-Pull Switch

Typical Part Marking

4.87 (.192)  4.87 (.192)

DIMENSIONS:  MM [INCHES]

5.0 (.197)  5.0 (.197)

How To Order

PDB183 - K  4  25 K - 103 A1

Model

Terminal Configuration (Pin Layout) (see individual drawings)
• K = PC Pins vertical/Down Facing (12.5 mm)
• S = Solder Lugs Horizontal/Rear Facing

Detent Option
• 2 = Center Detent
• 4 = No Detents

Standard Shaft Length
• 20 = 20 mm
• 25 = 25 mm
• 30 = 30 mm

Shaft Style
• K = Metal Knurled Type Shaft
  18 Toothed Serration Type
• P = Metal Plain Type Shaft

Resistance Code (See Table)

Resistance Taper (See Taper Charts)
  Taper Series followed by Curve Number

REV. 06/11

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

For more information about this product, visit our website at: www.potentiometers.com