Features
- High rotational life
- Metal shaft styles
- Carbon element
- Center detent option
- Wide range of resistance tapers
- RoHS compliant*

**PDB24 Series - 24 mm Rotary Potentiometer**

### Electrical Characteristics
- **Taper**
  - Linear, audio
  - 1 K ohms to 1 M ohms
- **Standard Resistance Range**
- **Standard Resistance Tolerance**
  - ±20%
- **Residual Resistance**
  - R<500K ohms: 10 ohms max.
  - R>500K ohms: 0.1% max.
- **Rotational Life**
  - Standard: 15,000 cycles min.
  - High: 500,000 cycles min.

### Environmental Characteristics
- **Operating Temperature**
  - -10°C to +70°C
- **Power Rating**
  - Linear: 0.5 watt
  - Audio: 0.25 watt
- **Maximum Operating Voltage**
  - Linear: 500 V
  - Audio: 250 V
- **Rotational Noise**
  - 150 mV max.

### Mechanical Characteristics
- **Mechanical Angle**
  - 300° ±5°
- **Rotational Torque**
  - 20 to 200 g-cm
- **Stop Strength**
  - 8 kg-cm min.
- **Soldering Condition**
  - **Manual Soldering**
    - 300 °C within 3 seconds
  - **Wave Soldering**
    - 260 °C within 3 seconds
- **Hardware**
  - One flat washer and mounting nut supplied per potentiometer with bushing

### Derating Curve

Applications

- Various commercial applications
- Electric guitars
- Sound processing equipment
- Guitar and sound system amplifiers
- Appliances

PDB24 Series - 24 mm Rotary Potentiometer

Product Dimensions

**F Type**

<table>
<thead>
<tr>
<th>L</th>
<th>20.0 (0.787)</th>
<th>25.0 (0.984)</th>
<th>30.0 (1.181)</th>
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</thead>
<tbody>
<tr>
<td>F</td>
<td>12.0 (0.472)</td>
<td>12.0 (0.472)</td>
<td>12.0 (0.472)</td>
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</table>

**P Type**

<table>
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<th>25.0 (0.984)</th>
<th>30.0 (1.181)</th>
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</thead>
<tbody>
<tr>
<td>F</td>
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</table>

**K Type**

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<td>10.0 (.394)</td>
<td>12.0 (.472)</td>
<td>12.0 (.472)</td>
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<tr>
<td>D</td>
<td>1.5 (.059)</td>
<td>2.5 (.098)</td>
<td>4.0 (.157)</td>
</tr>
</tbody>
</table>

**How To Order**

PDB24 1 - E 4 25 K - 103 A2

Model

No. of Sections
- 1 = Single Section/Standard Rotational Life
- 2 = Single Section/High Rotational Life

Terminal Configuration (Pin Layout)
- E = Solder Lugs Rear Facing
- S = Solder Lugs Down Facing
- D = PC Pins Front 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
- F = Metal Flatted Shaft
- P = Metal Plain Shaft

Resistance Code (See Table)

Resistance Taper (See Taper Chart)
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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</thead>
<tbody>
<tr>
<td>1,000</td>
<td>102</td>
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<tr>
<td>2,000</td>
<td>202</td>
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<tr>
<td>5,000</td>
<td>502</td>
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<tr>
<td>10,000</td>
<td>103</td>
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<td>504</td>
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<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

**Applications**

- Various commercial applications
- Electric guitars
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- Appliances

For more information about this product, visit our website at: [www.potentiometers.com](http://www.potentiometers.com)