**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
- **Standard Resistance Range:** 1 K ohms to 1 M ohms
- **Standard Resistance Tolerance:** ±20 %
- **Residual Resistance:**
  - R<500K ohms: 10 ohms max.
  - R>500K ohms: 0.1 % max.
- **Total Resistance**

**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.
- **Rotational Life:**
  - Standard: 15,000 cycles min.
  - High: 500,000 cycles 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**

<table>
<thead>
<tr>
<th>Ambient Temperature (°C)</th>
<th>Rating Power Ratio (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>100</td>
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<tr>
<td>40</td>
<td>80</td>
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</tr>
<tr>
<td>80</td>
<td>40</td>
</tr>
<tr>
<td>100</td>
<td>20</td>
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</table>

**Product Dimensions**

- **PDB241-D**
- **PDB241-E**
- **PDB241-S**

**WARNING**
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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

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**PDB24 Series - 24 mm Rotary Potentiometer**

**Product Dimensions**

<table>
<thead>
<tr>
<th>Type</th>
<th>F Type</th>
<th>P Type</th>
<th>K Type</th>
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<td>1.0</td>
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<td>(.472)</td>
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<td>(1.181)</td>
<td>(1.181)</td>
<td>(1.181)</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>
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<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
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</tbody>
</table>

**Tapers**

A Series Tapers

B Series Tapers

C Series Tapers

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REV. 10/19

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