Features
- Split knurled or plain shaft options
- DPDT latching-push switch
- Metal bushing and shaft
- Carbon element
- Linear and audio taper options
- RoHS compliant*

PDB185-GTR - 17 mm Guitar Potentiometer w/Latching-Push Switch

Electrical Characteristics

Taper.......................... Linear, audio
Standard Resistance Range
.......................... 10K ohms to 1M ohms
Standard Resistance Tolerance ....±20 %
Residual Resistance........ 2 Ω max.

Environmental Characteristics

Operating Temperature
..........................-10 °C to +70 °C
Power Rating
Linear.......................... 0.1 watt
Audio.......................... 0.05 watt
Maximum Operating Voltage
Linear............................ 150 V
Audio............................ 100 V
Sliding Noise..................... 47 mV max.

Mechanical Characteristics

Mechanical Angle ......... 300 ° ±5 °
Rotational Torque .......... 20 to 150 g-cm
Stop Strength........... 8 kg-cm min.
Rotational Life............. 15,000 cycles
Switch Life................ 10,000 actuations
Switch Type................ DPDT
Switch Travel............. 4.0 ± 0.8 mm
Switch Operating Force..... 2 kgf max.
Switch Operating Speed..... 1 sec.
Soldering Condition
Wave ............. 260 °C max., 5 sec. max.
Manual ................ 350 °C max., 3 sec. max.
Hardware ................ Two flat washers and two mounting nuts supplied per potentiometer

How To Order

PDB185 - GTR 11 - 504 A2
Model
Guitar Pot Designator
Configuration
• 01 = Knurled Shaft (18 Tooth) / Solder Lugs
• 02 = Slotted Shaft / Solder Lugs
• 04 = Slotted Shaft/PC Pins
• 11 = Knurled Shaft (24 Tooth) / Solder Lugs
• 13 = Knurled Shaft (24 Tooth) / PC Pins
• 31 = Knurled Shaft (18 Tooth) / Solder Lugs, Long Bushing
• 32 = Slotted Shaft / Solder Lugs / Long Bushing
Resistance Code (See table)
Resistance Taper (See taper charts)


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http://www.potentiometers.com
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.
Product Dimensions (Continued)

<table>
<thead>
<tr>
<th>Dimensions:</th>
<th>MM (INCHES)</th>
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<tbody>
<tr>
<td>PDB185-GTR31, PDB185-GTR32</td>
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</tbody>
</table>

**Circuit**

![Circuit Diagram]

**Switch Circuit**

![Switch Circuit Diagram]

**Hardware**

![Hardware Diagram]

**Tapers**

<table>
<thead>
<tr>
<th>Taper</th>
<th>Diagram</th>
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</thead>
<tbody>
<tr>
<td>A2</td>
<td>![A2 Taper Diagram]</td>
</tr>
<tr>
<td>B0</td>
<td>![B0 Taper Diagram]</td>
</tr>
<tr>
<td>C2</td>
<td>![C2 Taper Diagram]</td>
</tr>
</tbody>
</table>

**Derating Curve**

![Derating Curve Diagram]

**Standard Resistance Table**

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
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<tbody>
<tr>
<td>10,000</td>
<td>103</td>
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<tr>
<td>25,000</td>
<td>253</td>
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<tr>
<td>50,000</td>
<td>503</td>
</tr>
<tr>
<td>100,000</td>
<td>104</td>
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<td>250,000</td>
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<td>304</td>
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<tr>
<td>500,000</td>
<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

**Typical Part Marking**

![Typical Part Marking Diagram]

REV. 04/15

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