Features
- Remote controllable
- Suitable for both motorized and manual operation
- Dual section
- Smooth manual operating feel
- Various taper options
- RoHS compliant*

PRM16 Series - 16 mm Motorized Potentiometer

Electrical Characteristics

Taper ................................................................................................................ Linear, audio
Standard Resistance Range ............................................................................. 1K ohms to 1 megohm
Standard Resistance Tolerance ........................................................................ 20 %
Power Rating
- B3 Taper ........................................................................................................ 0.05 watt
- Other Tapers ................................................................................................... 0.1 watt
Maximum Operating Voltage ............................................................................. 150 Vac
Attenuation
- R<sub>2</sub>100K ohms ......................................................................................... 100 dB min.
- 100K ohms &gt; R &gt; 50K ohms ................................................................. 90 dB min.
- 50K ohms &gt; R &gt; 10K ohms ................................................................. 80 dB min.
- 10K ohms &gt; R &gt; 5K ohms ................................................................. 70 dB min.
- 5K ohms &gt; R &gt; 1K ohms ................................................................. 60 dB min.
- 1K ohms &gt; R &gt; 500 ohms ................................................................. 50 dB min.
Voltage Proof .................................................................................................. 500 VDC for 1 minute
Motor Voltage .................................................................................................. 4.5 VDC
Motor Current (@ 4.5 VDC) ................................................................................ 100 mA max.

Environmental Characteristics

Operating Temperature Range ......................................................................... -10 °C to +70 °C
Sliding Noise .................................................................................................... 47 mV max.

Mechanical Characteristics

Mechanical Angle ............................................................................................ 300 ° ± 5 °
Rotational Speed ............................................................................................... 12 ± 3 seconds
Rotational Torque ............................................................................................. 150 to 450 g-cm
Stop Strength ................................................................................................... 9 kg-cm max.
Push-pull Strength ........................................................................................... 10 kg max. for 10 seconds
Rotational Life .................................................................................................. 15,000 cycles
Soldering Condition ......................................................................................... 260 °C within 5 seconds or 300 °C within 3 seconds
Hardware ......................................................................................................... One flat washer and mounting nut supplied per potentiometer with bushing

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>
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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>204</td>
</tr>
<tr>
<td>500,000</td>
<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

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

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

RoHS compliant*
Applications

- Guitar amplifiers
- Mixing consoles
- Amplifiers, CD players, karaoke volume controls
- Servo tracks

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PRM16 Series - 16 mm Motorized Potentiometer

How To Order

PRM162 - K415K - 103B3

MODEL DESIGNATOR
Code | Description
--- | ---
PRM16 | 16 mm Motorized Potentiometer

NUMBER OF SECTIONS
Code | Description
--- | ---
2 | Dual Section

TERMINAL CONFIG. (PIN LAYOUT)
Code | Description
--- | ---
K | PC Pins Vertical/Down Facing

RESISTANCE TAPER
(SEE TAPER CHARTS)

RESISTANCE CODE
| Code | Value in Ohms |
--- | --- |
102 | 1,000 |
202 | 2,000 |
502 | 5,000 |
103 | 10,000 |
203 | 20,000 |
503 | 50,000 |
104 | 100,000 |
204 | 200,000 |
504 | 500,000 |
105 | 1,000,000 |

DETENT OPTION
Code | Description
--- | ---
4 | No Detents

STANDARD SHAFT LENGTH
| Code | Description |
--- | --- |
15 | 15 mm |
20 | 20 mm |
25 | 25 mm |
30 | 30 mm |

SHAFT STYLE
Code | Description
--- | ---
K | Knurled (18 Tooth Serrated)
S | Slotted

REV. 10/19
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