Features

- Long life carbon element
- Assortment of resistance tapers
- 100 mm travel length
- Touch sense lever
- PC terminals or snap-in connector option

PSM Series Motorized Slide Potentiometer

Electrical Characteristics

Standard Resistance Range
- 1K ohms to 1 megohm

Standard Resistance Tolerance... ±20 %

End Resistance .............. 20 ohms max.

Insulation Resistance @ 250 VDC
- 100 megohms min.

Dielectric Withstanding Voltage
- 250 VAC

Standard Taper .............. Linear, Audio

Power Rating - Linear........... 0.5 watt

Power Rating - Audio........... 0.25 watt

Slider Noise .................... 47 mV max.

Touch Sense Track

Conductive Resistance
- Snap-in Connector........... 2 ohms max.

PC Terminal
- TR > 30k ohms... 0.1 % of TR max.
- TR ≤ 30k ohms........... 30 ohms max.

Environmental Characteristics

Operational Life .............. 100,000 cycles

TR Shift ........................... ±15 %

Operating Temperature Range
- -10 °C to +55 °C

Resistance to Solder Heat ............. ±5 %

Mechanical Characteristics

Mechanical Travel
- See Product Dimensions

Operating Force .............. 30-130 gf

Stop Strength ..................... 5 kgf min.

Shaft Wobble .. 2(2 x L/25) mm p-p max.

Soldering Condition
- Wave ..................... 260 °C ±5 °C for 5 sec.
- Wash ..................... Not recommended

Motor Drive Characteristics

Rated Voltage ..................... 10 VDC

Operating Voltage Supply .. 6 to 11 VDC

Starting Current ................. 800 mA max.

Starting Force @ 10 VDC .......... 20 gf

Lever Speed @ 10 VDC .................. 20 mm/0.1 sec.

Applications

- Audio mixing consoles
- Broadcast mixing consoles

PSM Series Motorized Slide Potentiometer

Product Dimensions

Snap-in Connector

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector</td>
<td>5.8 (0.228)</td>
</tr>
<tr>
<td>1st 2nd 3rd</td>
<td>2.5 x 15.0 (0.98 x 5.91)</td>
</tr>
<tr>
<td>4th 5th 6th</td>
<td>19.95 (7.85)</td>
</tr>
<tr>
<td>LEAD FREE SOLDER M705</td>
<td></td>
</tr>
<tr>
<td>SHRINK-TUBE F32 (BLACK)</td>
<td></td>
</tr>
<tr>
<td>CABLE UL 1007 AWG 26</td>
<td></td>
</tr>
<tr>
<td>DIMENSIONS:</td>
<td>MM (INCHES)</td>
</tr>
<tr>
<td>3&quot; 2&quot; 1&quot;</td>
<td>2 2 1</td>
</tr>
<tr>
<td>Terminal 1</td>
<td>Output Voltage across Terminals 1-2</td>
</tr>
<tr>
<td>Input Voltage across Terminals 1-3 X 100 (%):</td>
<td></td>
</tr>
<tr>
<td>Terminal 2</td>
<td>Rotational Travel (%):</td>
</tr>
</tbody>
</table>

| Tapers | | | | | | |
| A Series Tapers | | | | | | |
| B Series Tapers | | | | | | |
| C Series Tapers | | | | | | |

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36 State Route 10, STE 6 • East Hanover, NJ 07936-0436
973-887-2550 • Toll Free 1-800-631-8083 • Fax 973-887-1940
http://www.potentiometers.com

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THE POTENTIOMETER SPECIALISTS®
PSM Series Motorized Slide Potentiometer

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.

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>

How To Order

PSM 01 - 08 2 A - 103 B2

- Model Number
- Designator
- PSM = Motorized Slide Potentiometer
- Length of Travel
- 01 = 100 mm
- Lever Length
- 08 = 8.2 mm
- Terminal Type
- 1 = PC Terminals
- 2 = Snap-in Connector
- Lever End Style
- A = Metal Lever (Refer to Drawing)
- Resistance Code
- (See Standard Resistance Table)
- Resistance Taper (See Taper Charts)
- Taper Series followed by Curve Number

Servo Track Output Chart

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