PSM Series Motorized Slide Potentiometer

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

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
2 ohms max.
Snap-in Connector........... 2 ohms max.
(Mating Connector CH325)
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
100 mm Travel.................. 30-130 gf
60 mm Travel.................. 10-110 gf
Stop Strength .................. 5 kgf min.
Shaft Wobble
100 mm Travel............... 1.3 mm p-p max.
60 mm Travel............... 1.6 mm p-p max.
Soldering Condition
Manual ....................... 350 °C ±5 °C for 3 sec.
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.
Lever Speed @ 10 VDC
20 mm/0.1 sec.
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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PSM Series Motorized Slide Potentiometer

Product Dimensions
Snap-in Connector - 60 mm Travel

Schematics

Motor

Line Track (R1)

Touch Sense Track

Servo Track (R2)

Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
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<td>102</td>
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<tr>
<td>1,000,000</td>
<td>105</td>
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</tbody>
</table>

How To Order

PSM 01 - 08 2 A - 103 B2

Motor Line Track (R1) Touch Sense Track

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Tapers

A Series Tapers

B Series Tapers

C Series Tapers

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