



## 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

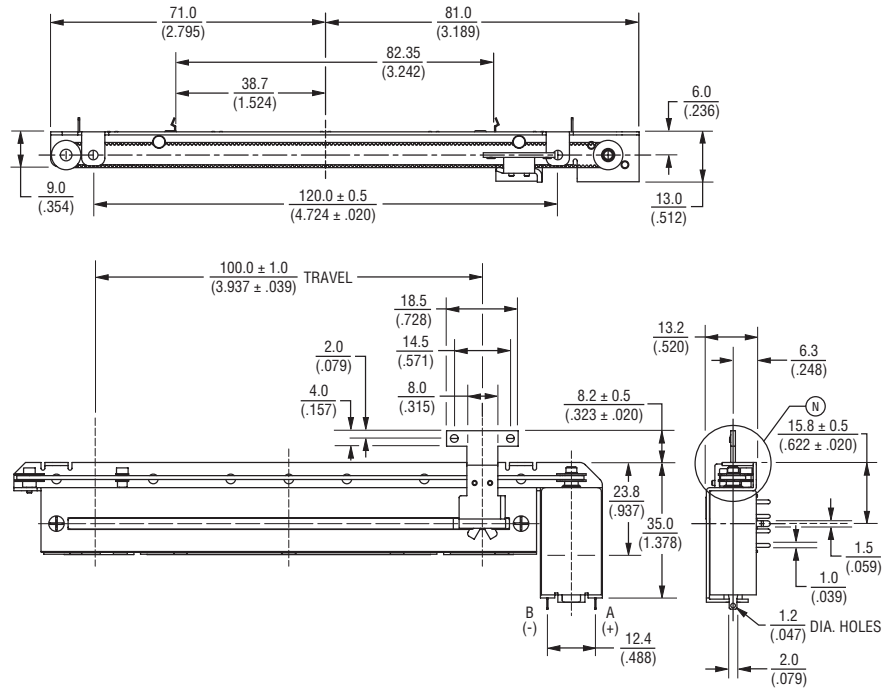
Mechanical Travel  
 ..... See Product Dimensions  
 Operating Force ..... 30-130 gf  
 Stop Strength ..... 5 kgf min.  
 Shaft Wobble.. 2(2 x L/25) mm p-p max.  
 Soldering Condition  
 Manual ..... 350 °C ±5 °C for 3 sec.  
 Wave ..... 260 °C ±5 °C for 5 sec.  
 Wash ..... Not recommended

### Motor Drive Characteristics

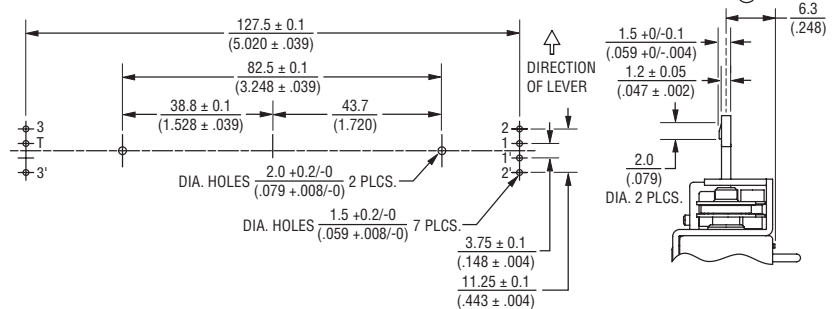
Rated Voltage ..... 10 VDC  
 Operating Voltage Supply .. 6 to 11 VDC  
 Starting Current ..... 800 mA max.  
 Starting Force @ 10 VDC ..... 20 gf  
 Lever Speed @ 10 VDC  
 ..... 20 mm/0.1 sec.

### Product Dimensions

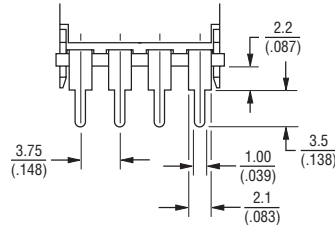
#### PC Terminals



#### Mounting Hole Detail



#### Terminal Detail



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

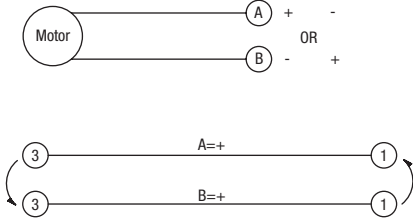


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## Schematics

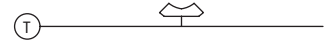
### Motor



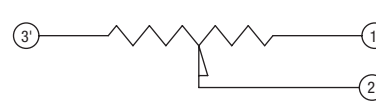
### Line Track



### Touch Sense Track



### Servo Track



## Standard Resistance Table

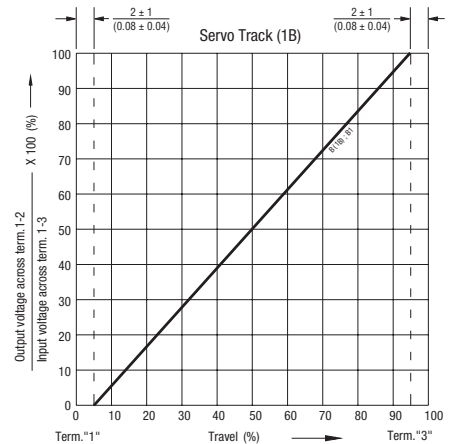
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

## 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



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