



## 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



# 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

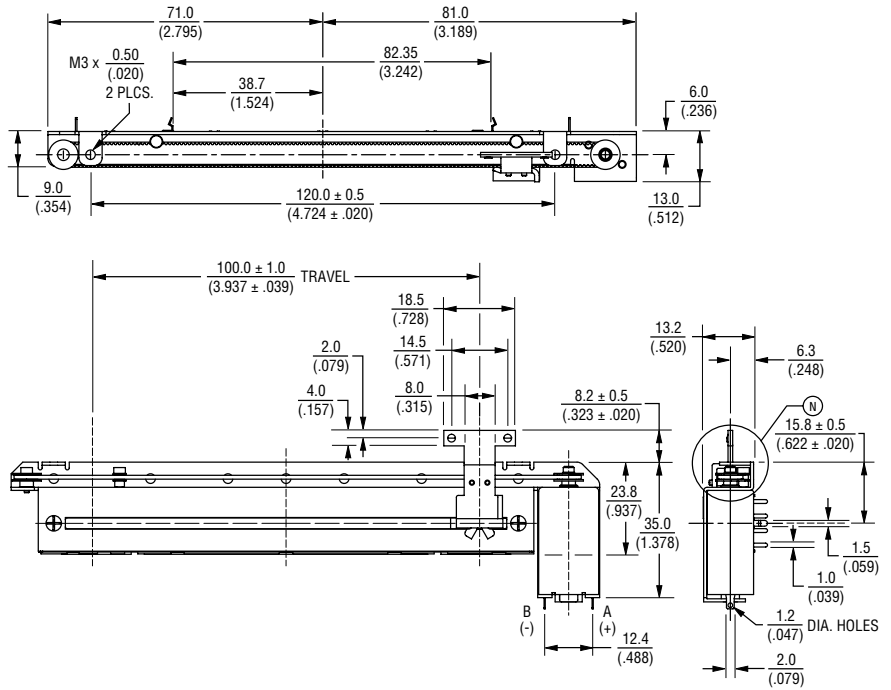
Mechanical Travel ..... See Product Dimensions  
 Operating Force  
 100 mm Travel ..... 30-130 gf  
 60 mm Travel ..... 10-110 gf  
 Stop Strength ..... 5 kgf min.  
 Shaft Wobble  
 100 mm Travel ..... 1.3 mm p-p max.  
 60 mm Travel ..... 1.6 mm p-p max.  
 Soldering Condition  
 Manual ..... 350 °C ±5 °C for 3 sec.  
 Wave ..... 260 °C ±5 °C for 5 sec.  
 Wash ..... Not recommended

## Motor Drive Characteristics

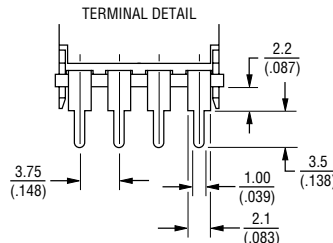
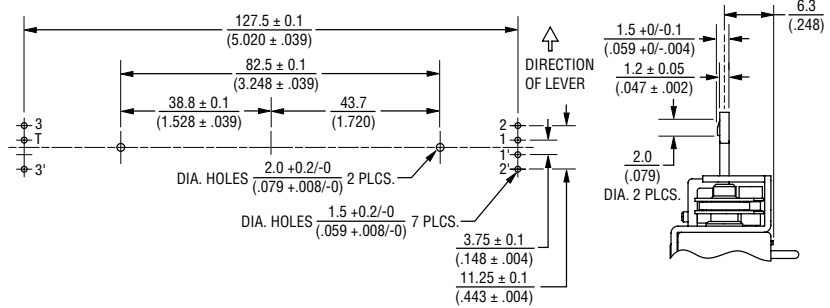
Rated Voltage ..... 10 VDC  
 Operating Voltage Supply .. 6 to 11 VDC  
 Starting Current ..... 800 mA max.  
 Lever Speed @ 10 VDC ..... 20 mm/0.1 sec.

## Product Dimensions

### PC Terminals - 100 mm Travel



### Mounting Hole Detail



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

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

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Users should verify actual device performance in their specific applications.

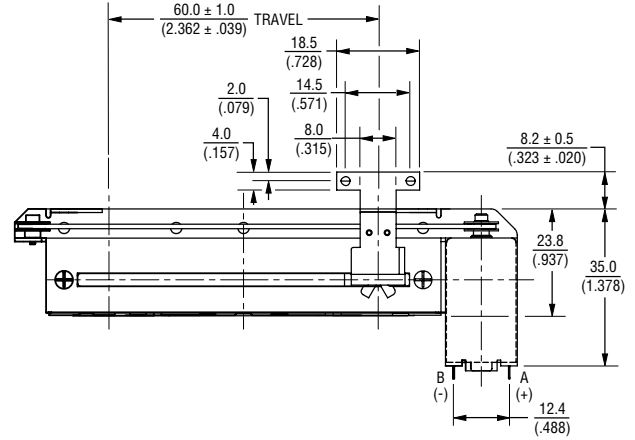
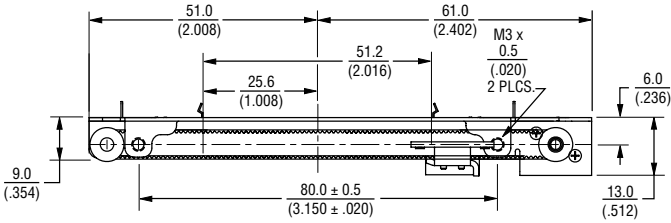
# Applications

- Audio mixing consoles
- Broadcast mixing consoles

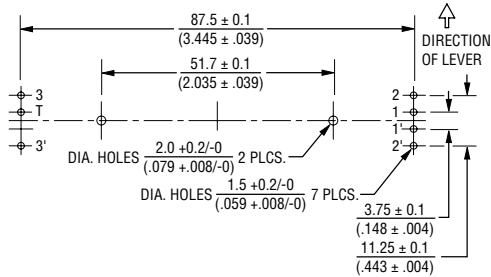
## PSM Series Motorized Slide Potentiometer **BOURNS®**

### Product Dimensions

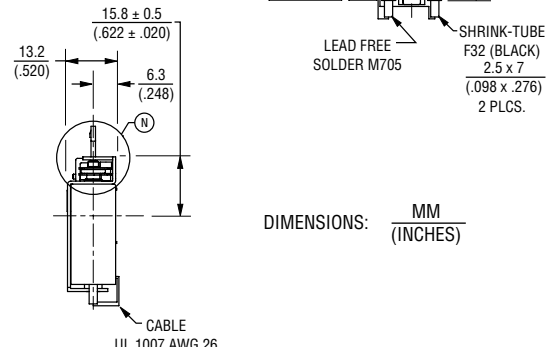
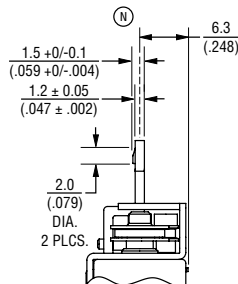
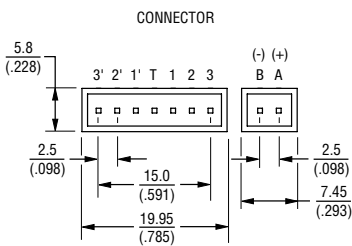
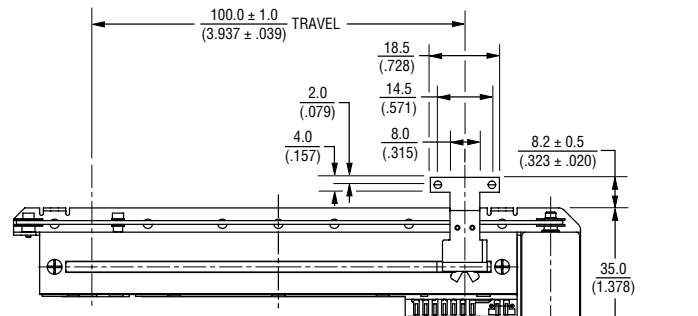
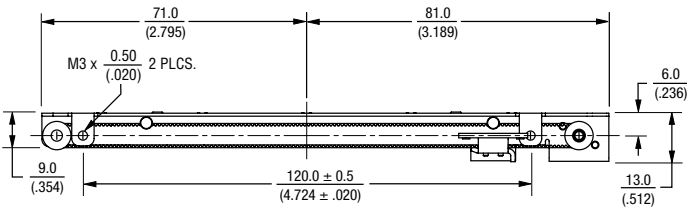
#### PC Terminals - 60 mm Travel



#### Mounting Hole Detail



#### Snap-in Connector - 100 mm Travel



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

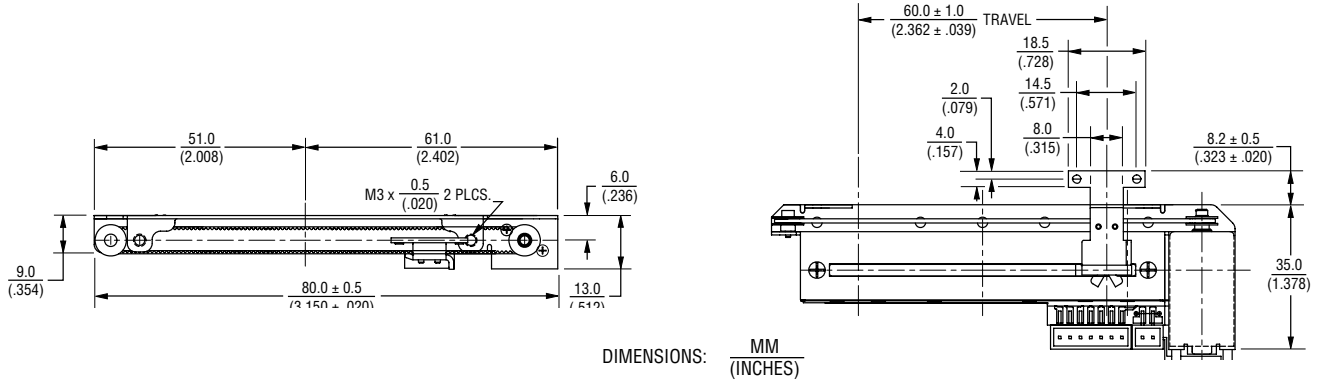
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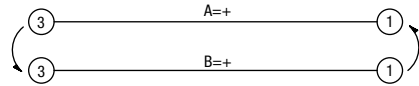
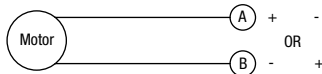
## Product Dimensions

### Snap-in Connector - 60 mm Travel



## Schematics

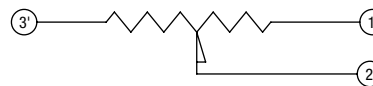
### Motor



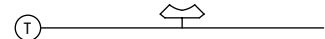
### Line Track (R1)



### Servo Track (R2)



### Touch Sense Track



## Standard Resistance Table

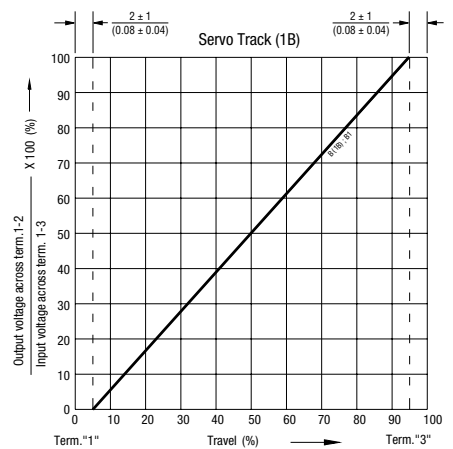
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

## How To Order

**PSM 01 - 08 2 A - 103 B2**

Model Number \_\_\_\_\_  
 Designator \_\_\_\_\_  
 PSM = Motorized Slide Potentiometer  
 Length of Travel \_\_\_\_\_  
 01 = 100 mm  
 60 = 60 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



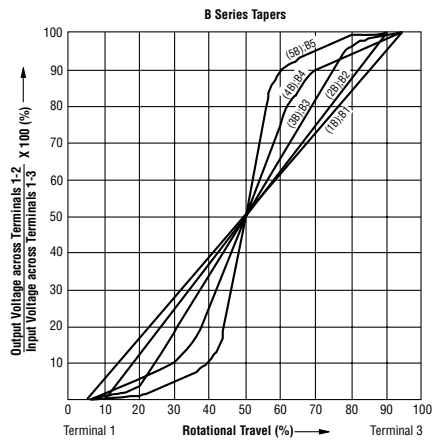
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## Tapers



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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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