



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... $\pm 20\%$
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 $\leq$ 30k ohms 30 ohms max.

Environmental Characteristics

Operational Life 100,000 cycles
TR Shift $\pm 15\%$
Operating Temperature Range
..... -10°C to $+55^\circ\text{C}$
Resistance to Solder Heat $\pm 5\%$

Mechanical Characteristics

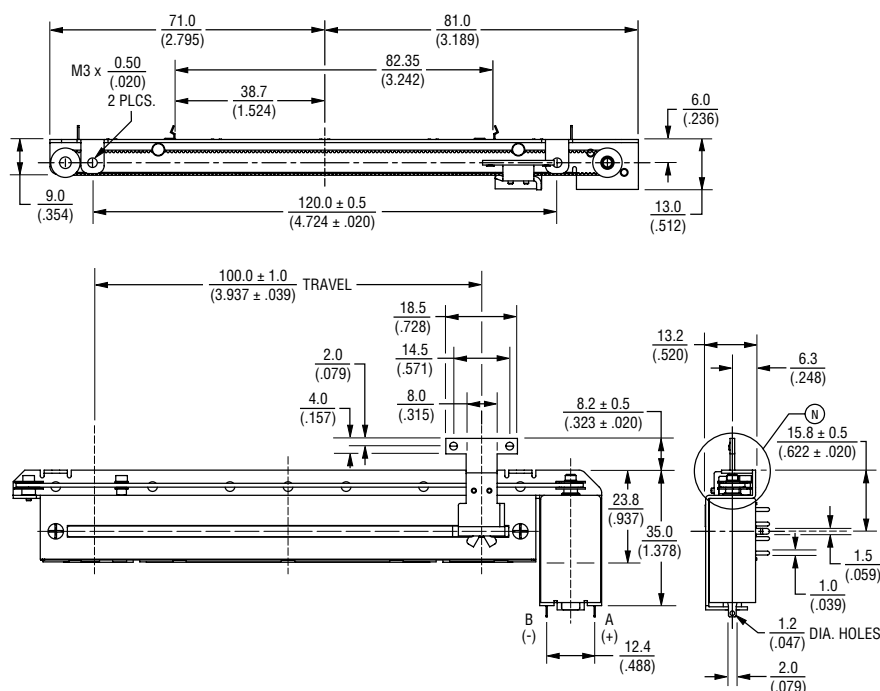
Mechanical Travel
..... See Product Dimensions
Operating Force
100 mm Travel 30-130 gf
60 mm Travel 10-110 gf
Stop Strength 5 kgf min.
Shaft Wobble
100 mm Travel 1.3 mm p-p max.
60 mm Travel 1.6 mm p-p max.
Soldering Condition
Manual $350^\circ\text{C} \pm 5^\circ\text{C}$ for 3 sec.
Wave $260^\circ\text{C}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

Motor Drive Characteristics

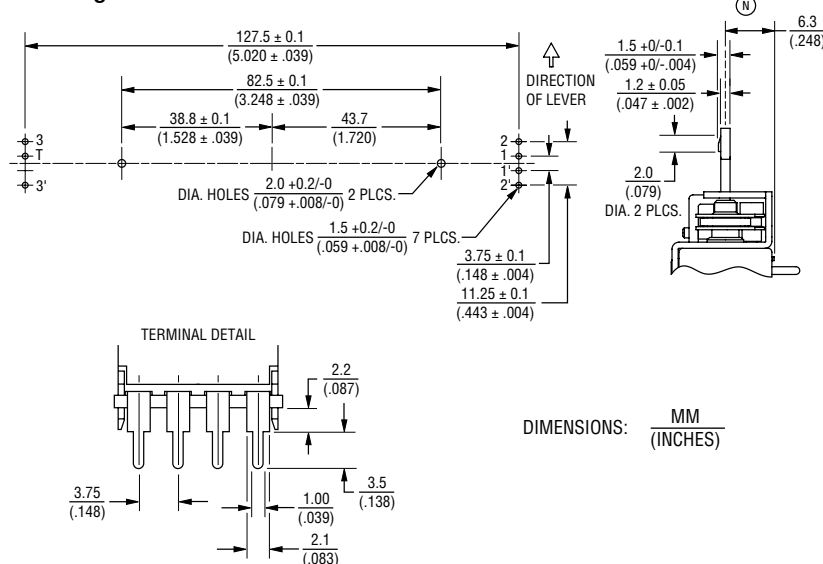
Rated Voltage 10 VDC
Operating Voltage Supply .. 6 to 11 VDC
Starting Current 800 mA max.
Lever Speed @ 10 VDC
..... 20 mm/0.1 sec.

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.

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Users should verify actual device performance in their specific applications.

Applications

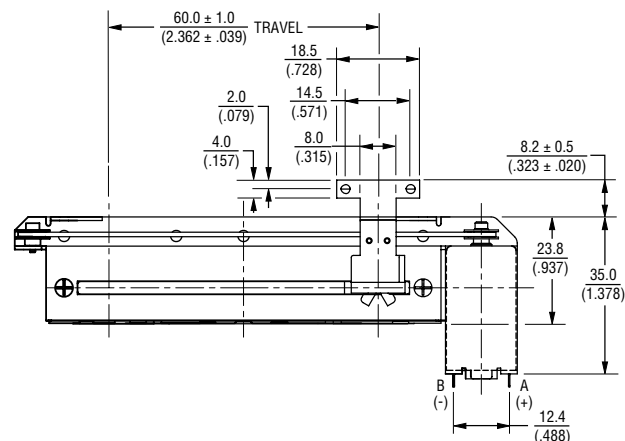
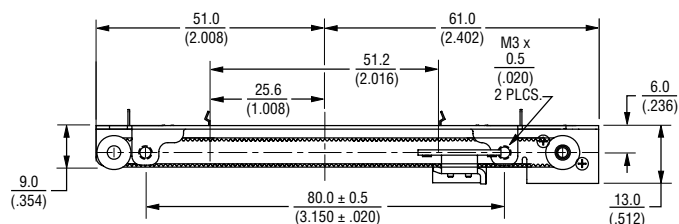
- Audio mixing consoles
- Broadcast mixing consoles

PSM Series Motorized Slide Potentiometer

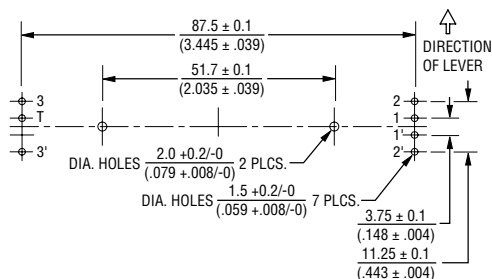
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Product Dimensions

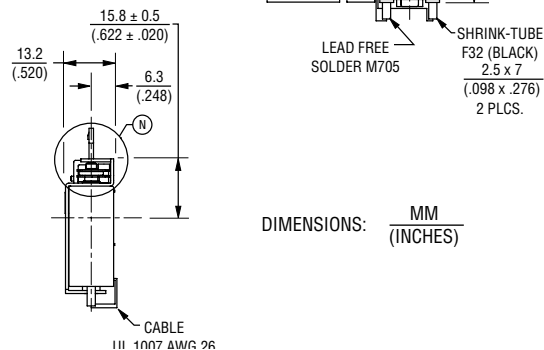
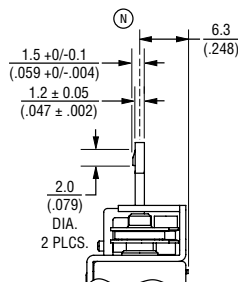
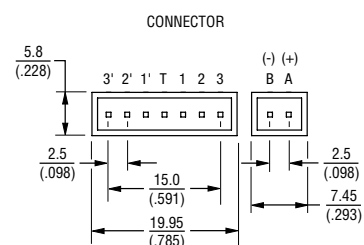
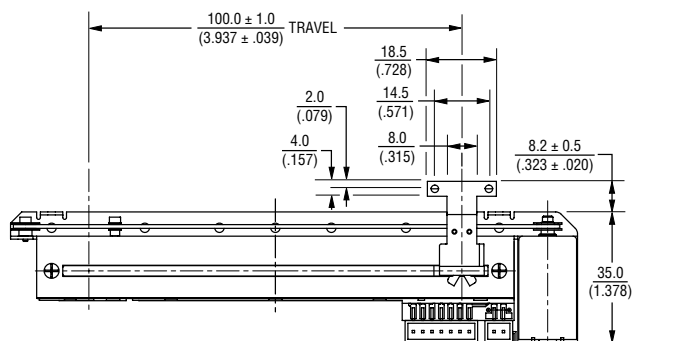
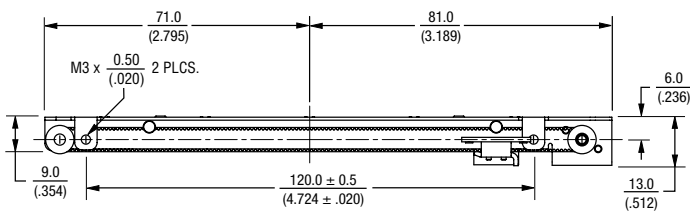
PC Terminals - 60 mm Travel



Mounting Hole Detail



Snap-in Connector - 100 mm Travel

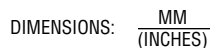


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

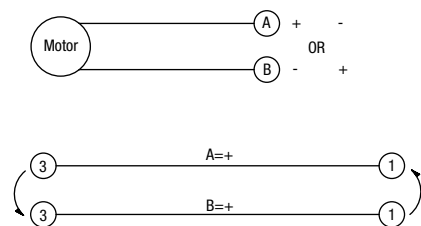
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Snap-in Connector - 60 mm Travel



Motor



The diagram shows a series circuit. On the left, a battery is represented by two parallel lines of unequal length. A wire connects the positive terminal of the battery to a switch, labeled '2'. The switch is currently open. The wire continues from the switch to a resistor, labeled '1'. This resistor is connected in series with another resistor, labeled '3', which is connected back to the negative terminal of the battery. The entire circuit is enclosed in a rectangular frame.

A diagram of a simple circuit. It consists of a horizontal wire. On the left end, there is a circle containing the letter 'T', representing a battery. On the right end, there is a bulb symbol, which is a circle with a vertical line through its center. The wire connects the battery to the bulb, forming a closed loop.

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

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

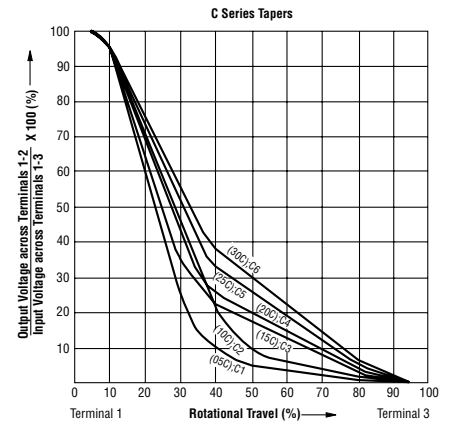
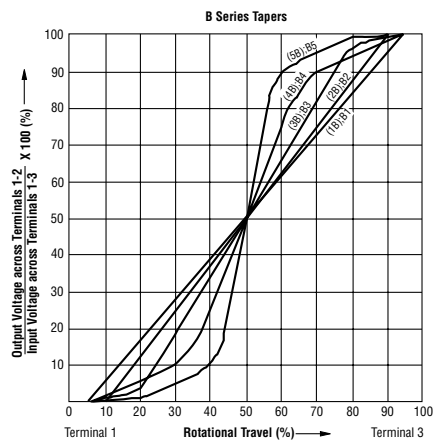
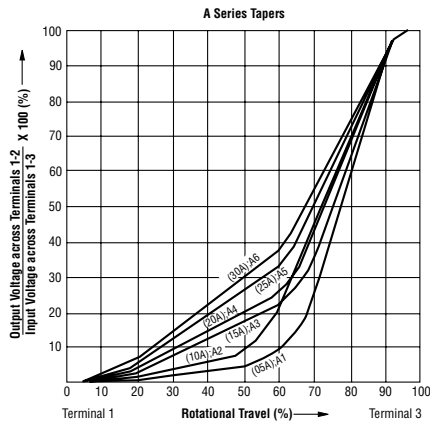
Figure 1 is a graph titled "Servo Track (1B)". The vertical axis is labeled "Output voltage across term. 1-2" and "X 100 (%)". The horizontal axis is labeled "Input voltage across term. 1-3" and "Travel (%)". Both axes range from 0 to 100 with major grid lines every 10 units. A solid diagonal line represents the ideal 1:1 relationship. At the top and bottom of the graph, there are horizontal arrows indicating a tolerance of 2 ± 1 (0.08 $\pm$ 0.04). The text "Servo Track (1B)" is centered in the upper half of the plot. A label "100 $\pm$ 0.5" is placed along the diagonal line near the 70% mark.

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PSM Series Motorized Slide Potentiometer

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Tapers



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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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