



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 °C
Resistance to Solder Heat $\pm 5\%$

Mechanical Characteristics

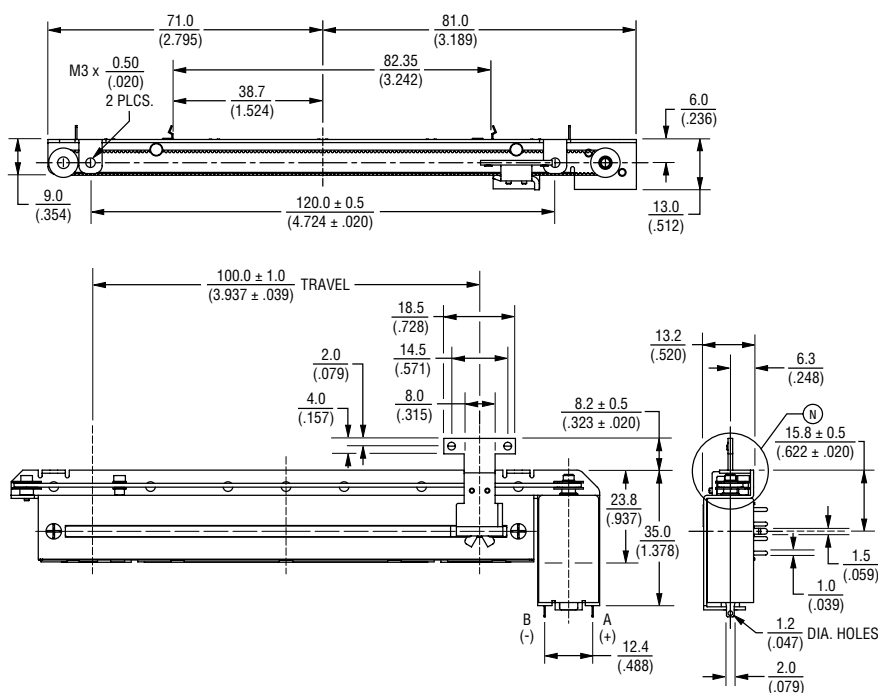
Mechanical Travel
..... See Product Dimensions
Operating Force
100 mm Travel 30-130 gf
60 mm Travel 10-110 gf
Stop Strength 5 kgf min.
Shaft Wobble
100 mm Travel 1.3 mm p-p max.
60 mm Travel 1.6 mm p-p max.
Soldering Condition
Manual 350 °C ± 5 °C for 3 sec.
Wave 260 °C ± 5 °C for 5 sec.
Wash Not recommended

Motor Drive Characteristics

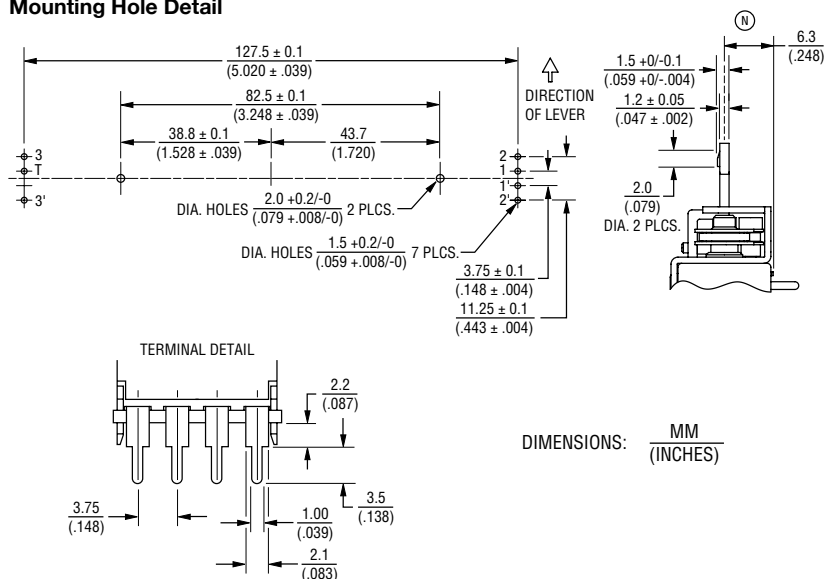
Rated Voltage 10 VDC
Operating Voltage Supply .. 6 to 11 VDC
Starting Current 800 mA max.
Lever Speed @ 10 VDC
..... 20 mm/0.1 sec.

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.

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.

Applications

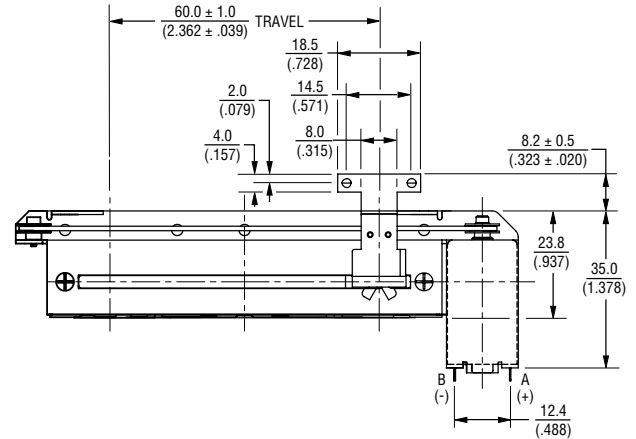
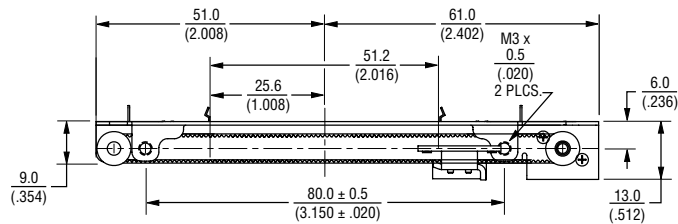
- Audio mixing consoles
- Broadcast mixing consoles

PSM Series Motorized Slide Potentiometer

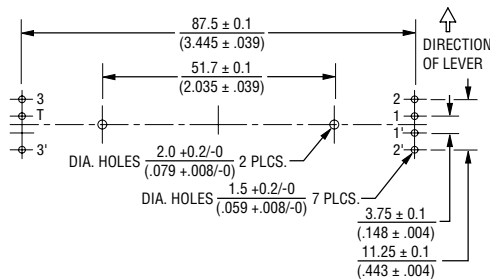
BOURNS®

Product Dimensions

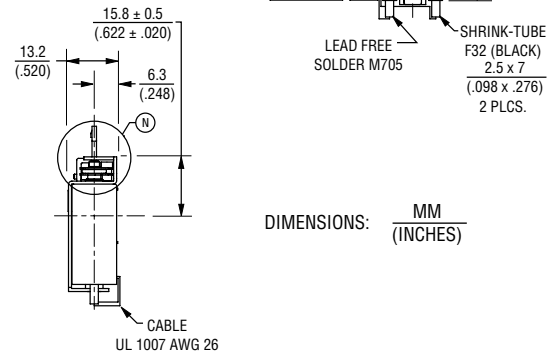
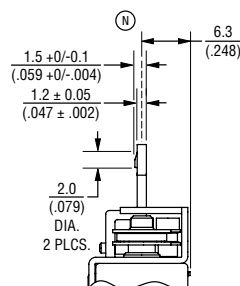
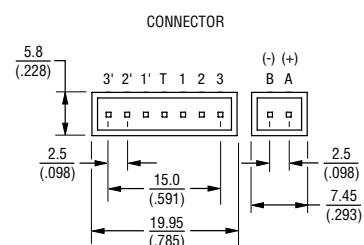
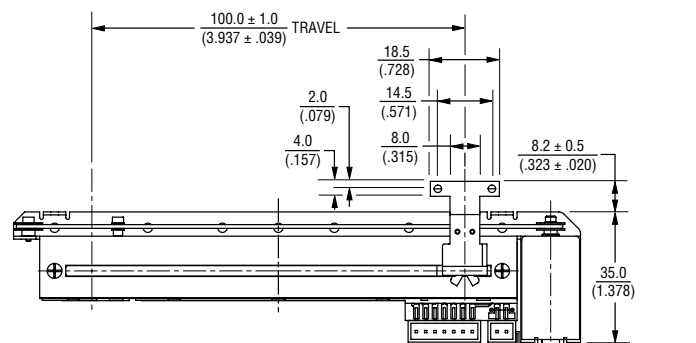
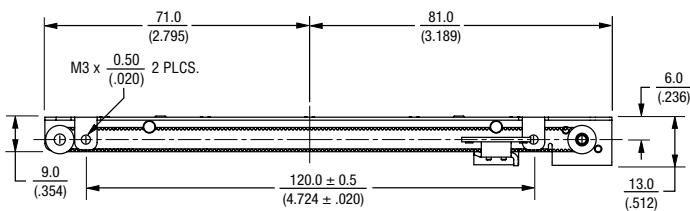
PC Terminals - 60 mm Travel



Mounting Hole Detail



Snap-in Connector - 100 mm Travel



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

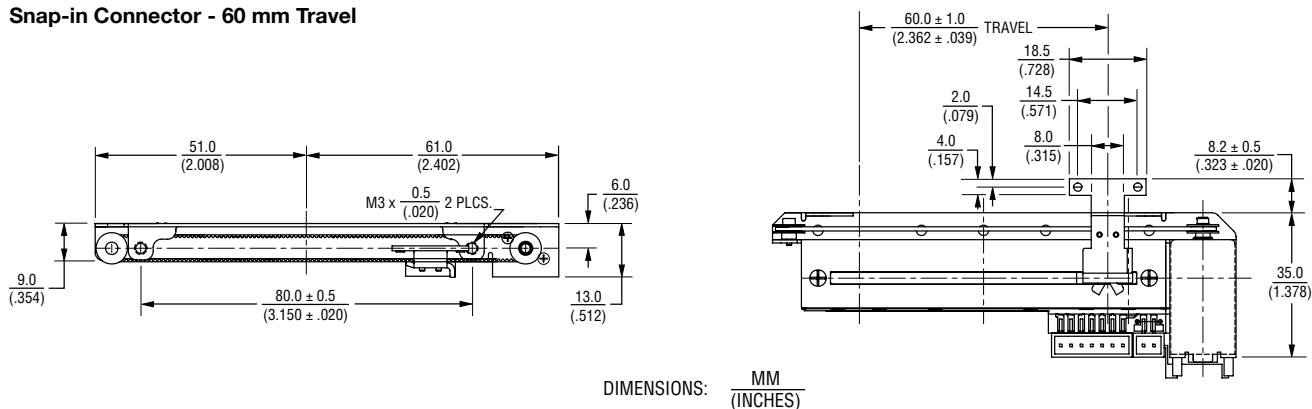
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

PSM Series Motorized Slide Potentiometer

BOURNS®

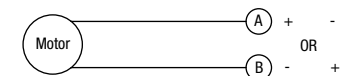
Product Dimensions

Snap-in Connector - 60 mm Travel



Schematics

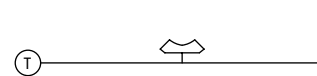
Motor



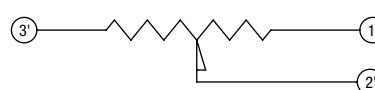
Line Track (R1)



Touch Sense Track



Servo Track (R2)



Standard Resistance Table

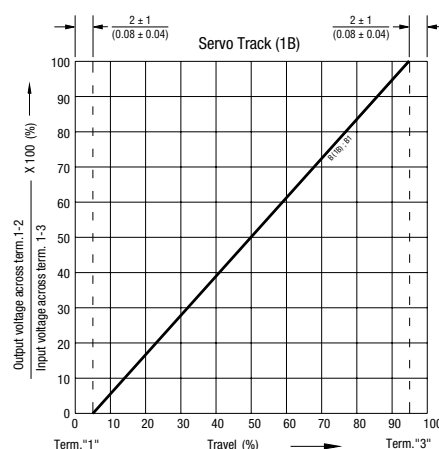
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

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



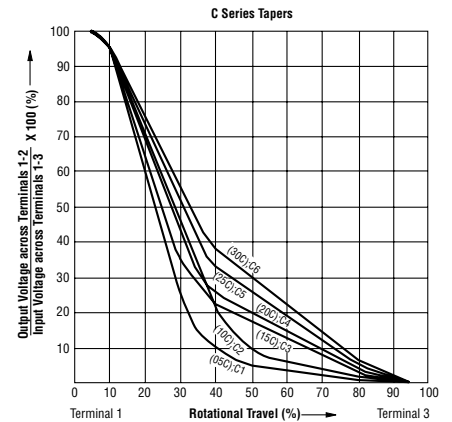
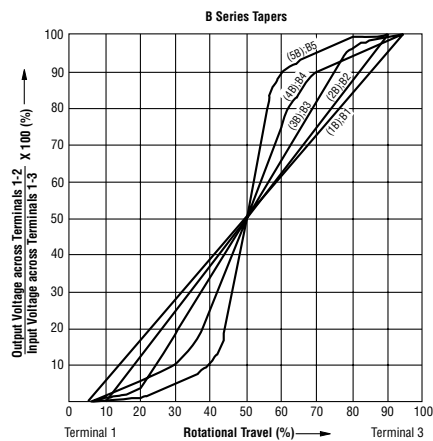
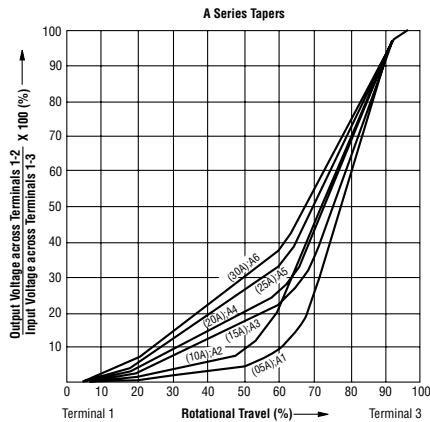
Specifications are subject to change without notice.

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.

PSM Series Motorized Slide Potentiometer

BOURNS®

Tapers



BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com

REV. 01/18/16

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

[PSM01-081A-103B2](#) [PSM01-082A-103B2](#) [PSM01-081A-204A4](#) [PSM01-081A-104B2](#) [PSM01-081A-203B2](#) [PSM01-081A-105A4](#) [PSM60-081A-103B2](#) [PSM60-082A-103B2](#)