

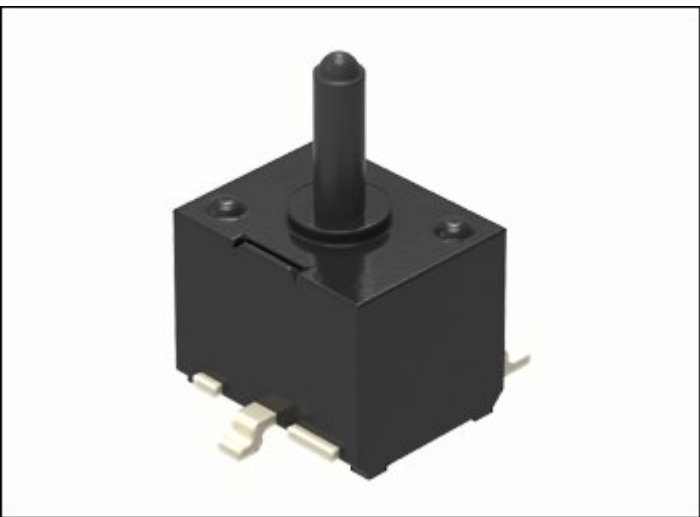
| Photo | Dimensions | Land Dimensions | Terminal Layout | Circuit Diagram | Packing Specifications | Soldering Conditions |

PRINT

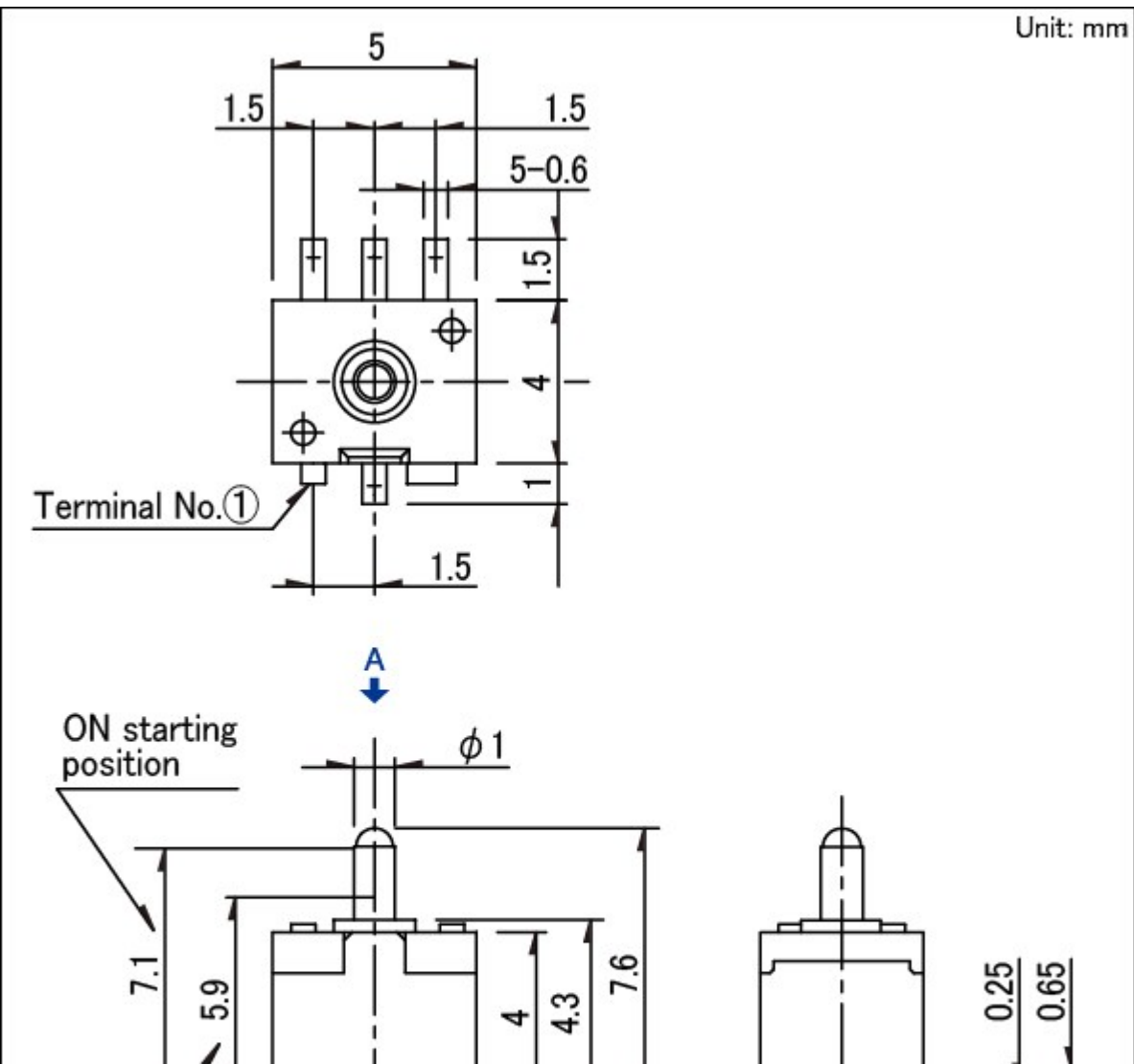
Part number		SPPW811203
Poles		1
Positions		1
Terminal type		For PC board (Reflow)
Operating force		0.3N max.
Slider height (mm)		7.6
ON start position (mm)		7.1
Total travel position (mm)		5.9
Operating temperature range		-10℃ to +60℃
Rating (max.)/(min.) (Resistive load)		0.1A 30V DC/100μA 3V DC
Electrical performance	Contact resistance (Initial/After operating life)	1Ω max./2Ω max.
	Insulation resistance	100MΩ min. 100V DC
	Voltage proof	100V AC for 1 minute
Mechanical performance	Terminal strength	3N for 1 minute
	Actuator strength	10N
Durability	Operating life without load	100,000 cycles 2Ω max.
	Operating life with load Rating (max.) (Resistive load)	100,000 cycles 2Ω max..
Environmental performance	Cold	-20℃ 96h
	Dry heat	85℃ 96h
	Damp heat	40℃, 90 to 95%RH 96h

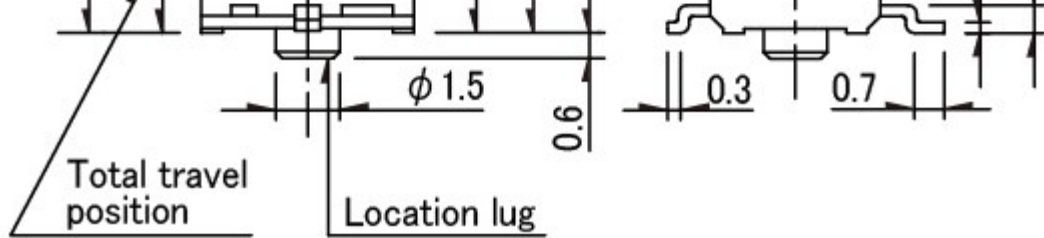
Minimum order unit (pcs.)	Japan	850
	Export	3,400
3D CAD (STEP) ↓		
Certificate of Compliance to RoHS regulations ↓		

Photo



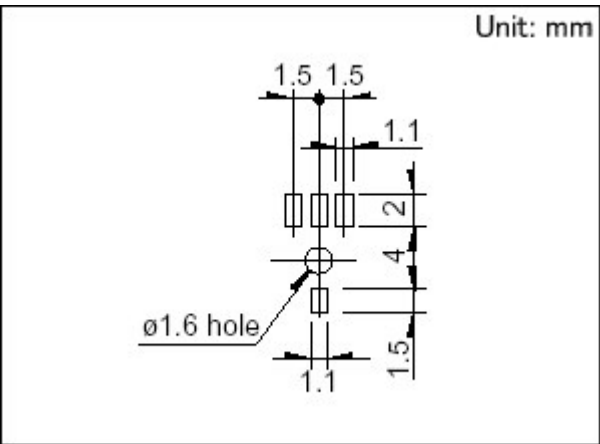
Dimensions





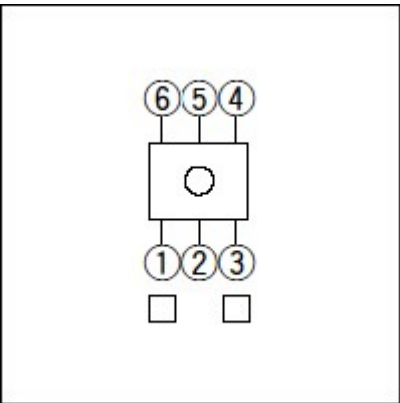
1. Products without location lug are also available.
2. Contact us for other slider height variations.
3. Contact us for other terminal types.

Land Dimensions



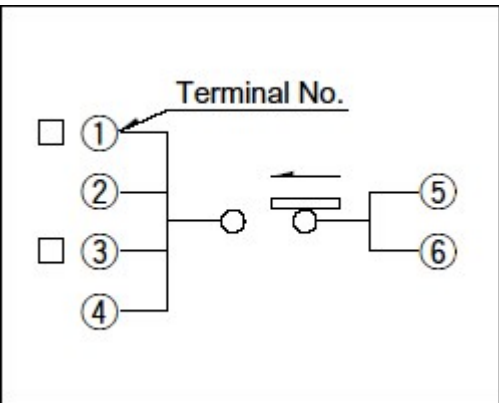
Viewed from direction A in the dimensions.

Terminal Layout



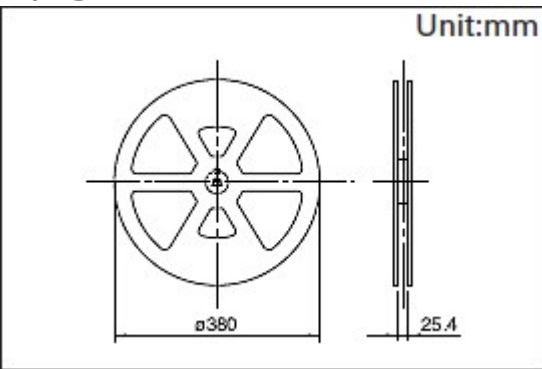
☐ mark shows a cutting terminal.

Circuit Diagram



Packing Specifications

Taping



Number of packages (pcs.)	1 reel	850
	1 case / Japan	1,700
	1 case / export packing	3,400
Tape width (mm)	24	
Export package measurements (mm)	406×406×160	

Soldering Conditions

Example of Reflow Soldering Condition

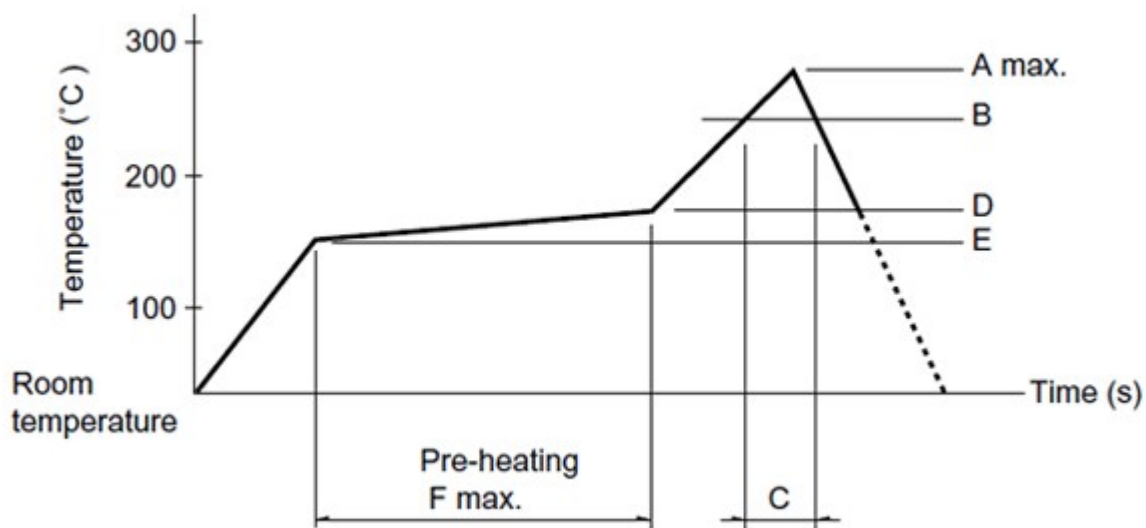
1. Heating method

Double heating method with infrared heater.

2. Temperature measurement

Thermocouple 0.1 to 0.2VCA (K) or CC (T) at soldering portion (copper foil surface) . A heat resisting tape should be used for fixed measurement.

3. Temperature profile



A(°C) 3s max.	B(°C)	C(s)	D(°C)	E(°C)	F(s)
250	230	35	180	150	120

(1) The condition mentioned above is the temperature on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, surface depending on the PC board's material, size, thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.

(2) Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

Reference for Hand Soldering

Soldering temperature	350±5℃
-----------------------	--------

Soldering time	3s max.
----------------	---------

Notes are common to this series/models.

1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
2. Standard type dimensions indicate "with location lug." version.
3. Please place purchase orders per minimum order unit (integer).
4. Products other than those listed in the above chart are also available. Please contact us for details.

Inquiries about Products

 Inquiry

Mouser Electronics

Authorized Distributor

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

[Alps Alpine:](#)

[SPPW811203](#)