ALPS
Perfecting the Art of Electronics

1.5mm-travel Vertical Type SPPH1 Series

Changeover timing		Non shorting
Travel		1.5mm
Total travel		2.5mm
Operating force		3(+1, -0.7)N
Mounting method		PC board
Poles		2
Knob style		Standard
Operation		Latching
Terminal type		Snap-in
Operating temperature range		-10℃ to +60℃
Rating (max.)/(min.) (Resistive load)		0.1A 30V DC/50μA 3V DC
Electrical performance	Contact resistance (Initial performance/After lifetime)	20mΩ max./40mΩ max.
	Insulation resistance	100MΩ min. 500V DC
	Voltage proof	500V AC for 1 minute
Mechanical performance	Terminal strength	5N for 1 minute
	Actuator strength Operating direction	50N
Durability	Operating life without load	10,000 cycles 40mΩ max.
	Operating life with load (at max. rated load)	10,000 cycles 40mΩ max.
Environmental performance	Cold	-20℃ 96h
	Dry heat	85℃ 96h
	Damp heat	40℃, 90 to 95%RH 96h
Minimum order unit (pcs.)	Japan	800

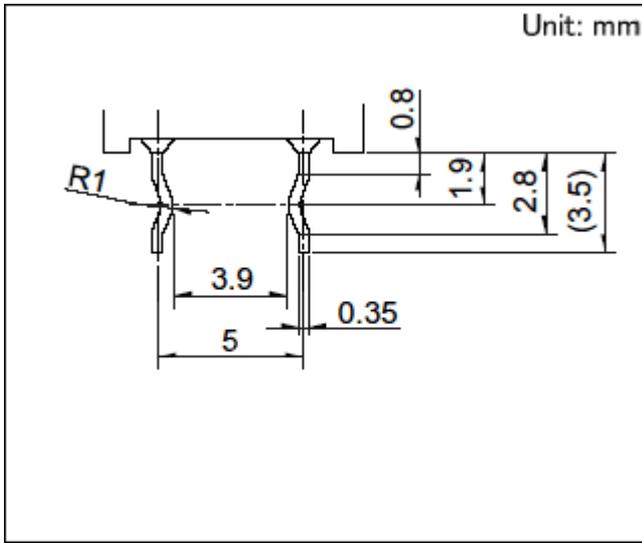Export　　　　　　　　　　4,000
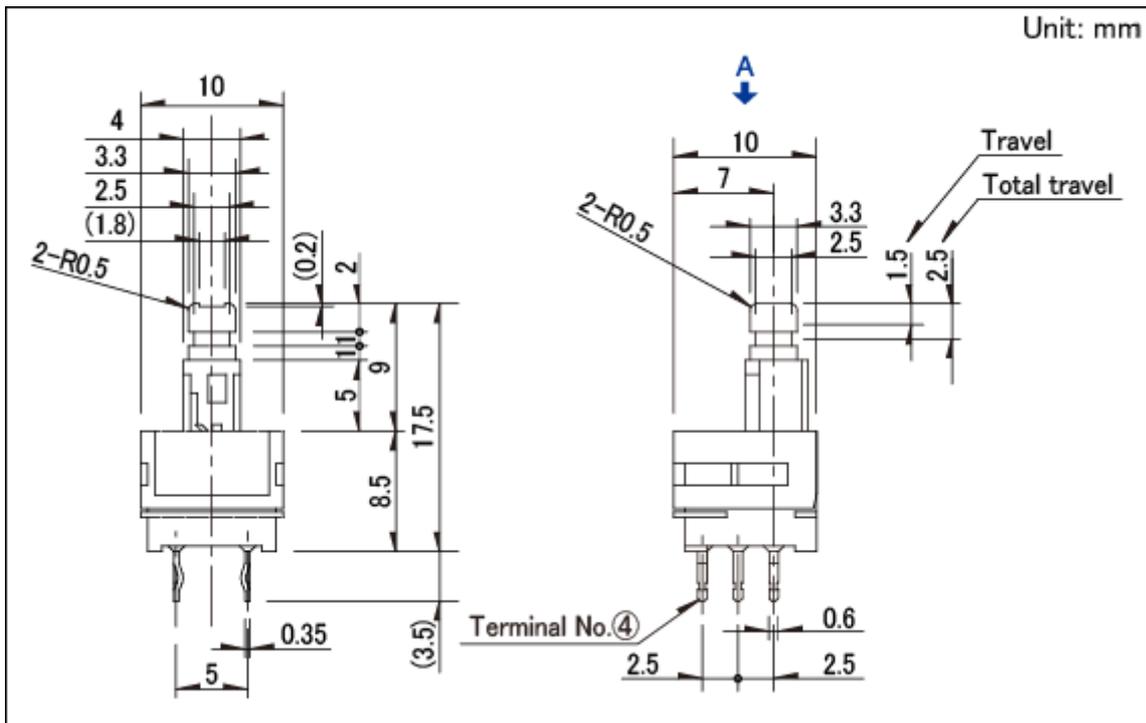
Dimensions

Mounting Hole Dimensions
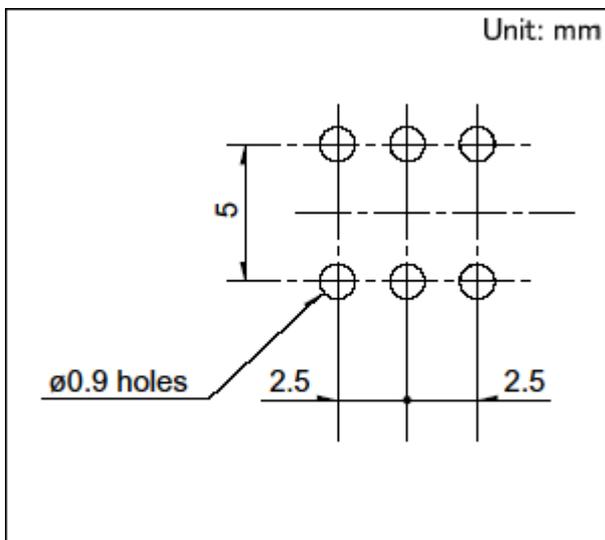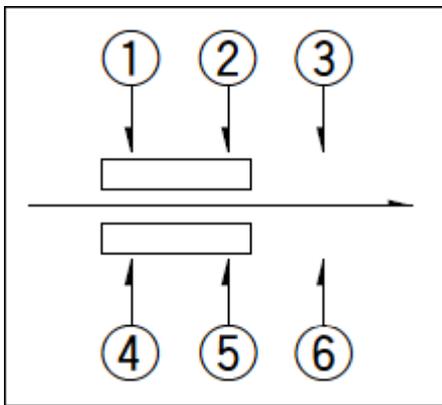

Viewed from direction A in the dimensions.

Terminal Configuration

Circuit Diagram

Packing Specifications

Bulk

Number of packages (pcs.)	1 case / Japan	800
	1 case / export packing	4,000

Export package measurements (mm)	400×270×290

Soldering Conditions

Reference for Dip Soldering

Items	Preheating temperature	-
	Preheating time	-
Dip soldering	Soldering temperature	260±5℃
	Duration of immersion	10±1s

Reference for Hand Soldering

Soldering temperature	350±5℃

Soldering time	3+1/0s

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. Please place purchase orders per minimum order unit (integer).
3. Products other than those listed in the above chart are also available. Please contact us for details.
4. This products can be used in vehicles.
   Although these products are designed to perform over a wide operating temperature range, please ensure that you receive and read the formal delivery specifications before use.