



4-direction Type with Center-push Function (Surface Mount) SKRH Series

Part number		SKRHABE010	
Type		Surface mount	
Operating force	4-direction	1.23N	
	Center push	2.35N	
Travel	4-direction	0.25mm	
	Center push	0.15mm	
Operating life (5mA 5V DC)		200,000 cycles for each direction	
Initial contact resistance		500mΩ max.	
Stem color		Black	
Guide bosses		With	
Operating temperature range		-40°C to +85°C	
Ratings (max.)/(min.) (Resistive load)		50mA 12V DC/10μA 1V DC	
Electrical performance	Directional resolution		4-direction
	Insulation resistance		100MΩ min. 100V DC
	Voltage proof		100V AC for 1 minute
Mechanical performance	Directional operating force		1.23±0.69N
	Push operating force		2.35±0.69N
	Actuator strength	Operating direction	29.4N
Durability	Operating life	Center push	200,000 cycles
Environmental performance	Cold	-40±2°C for 96h	

Dry heat

90±2℃ for 96h

Damp heat

60±2℃, 90 to 95%RH for 96h

Minimum order unit (pcs.)

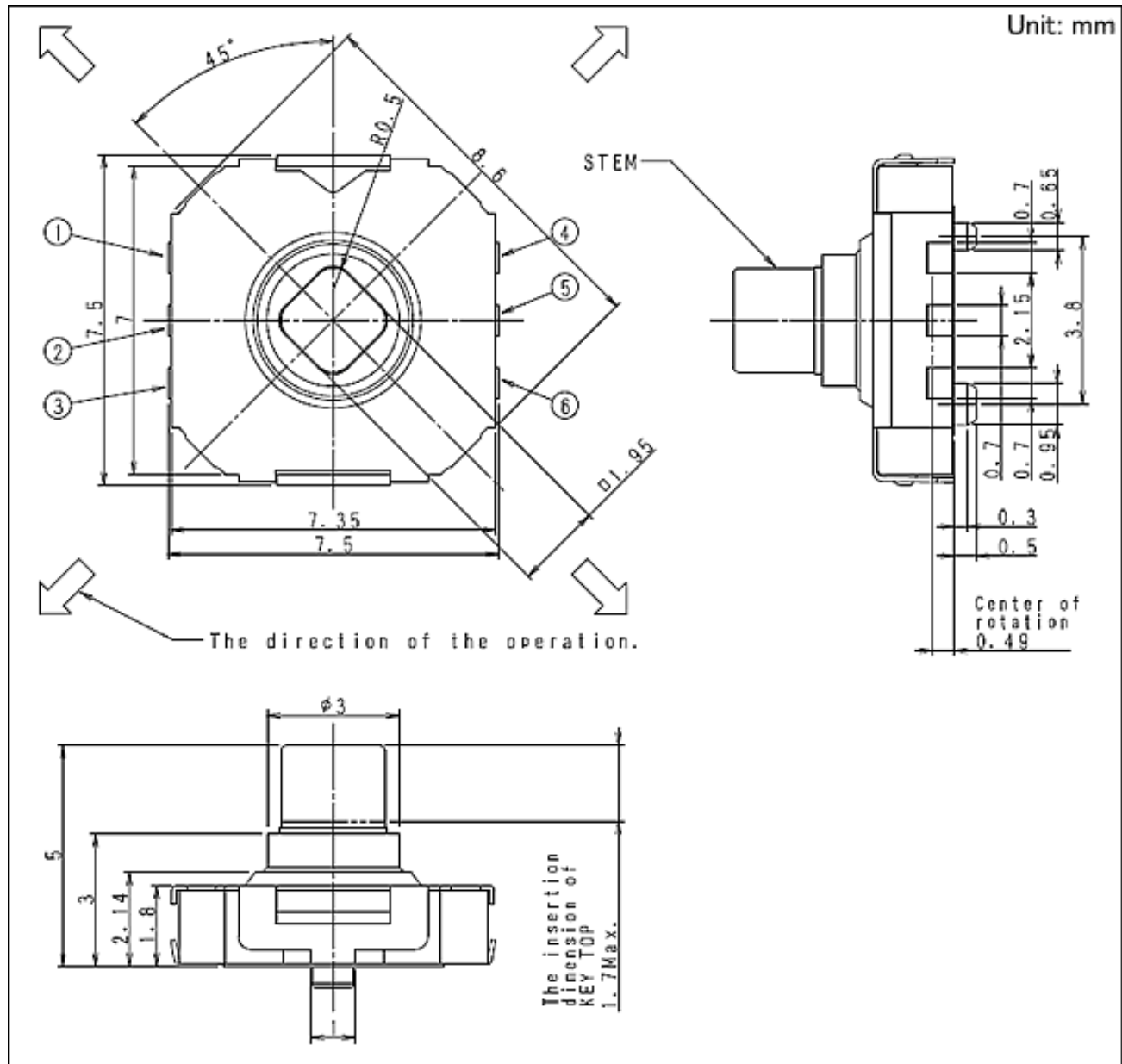
Japan

1,300

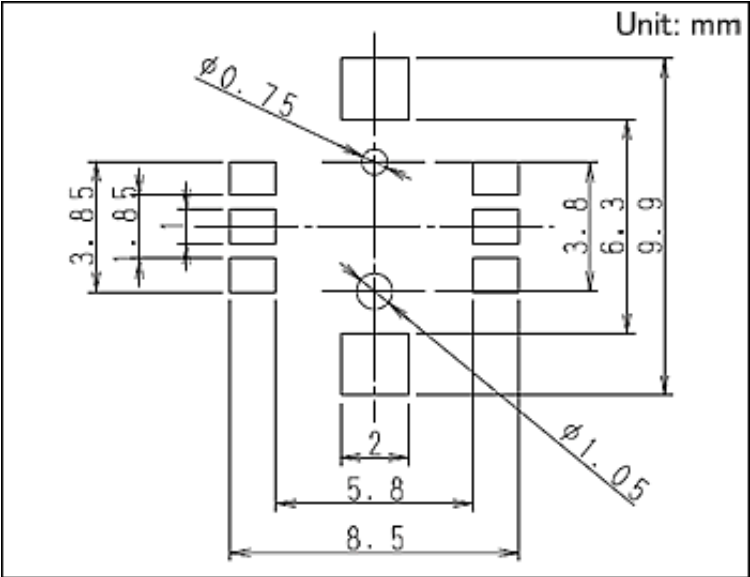
Export

1,300

Dimensions

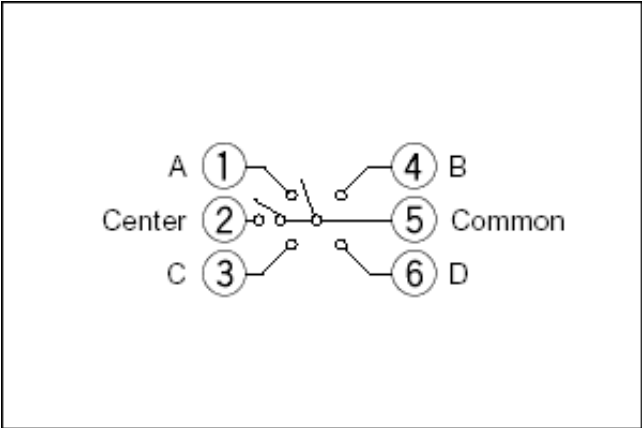


Land Dimensions



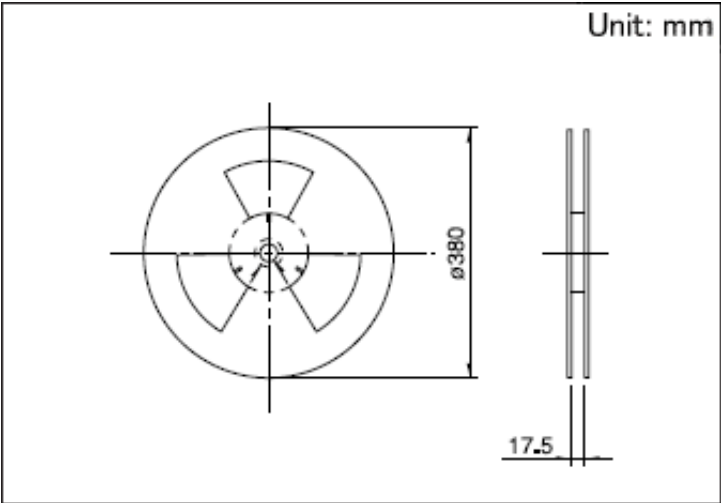
Viewed from mounting face

Circuit Diagram



Packing Specifications

Taping



Number of packages 1 reel (pcs.)	1,300
1 case / Japan	10,400

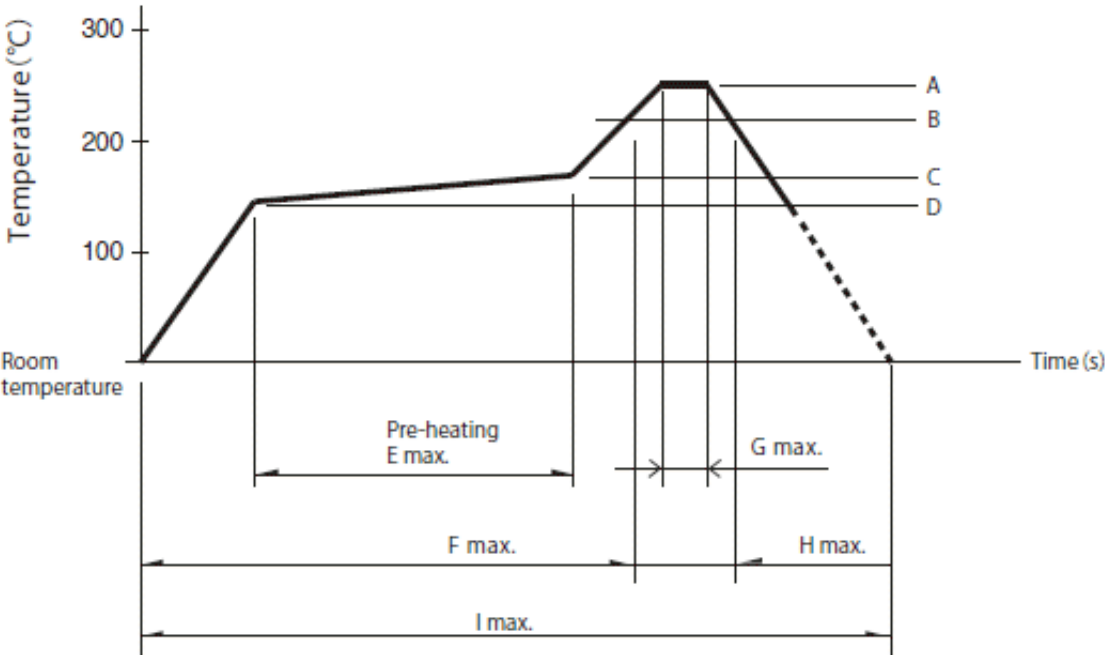
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SKRH Series - Basic information	
1 case / export packing	10,400
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Tape width (mm)	16
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Export package measurements (mm)	401×401×214
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Soldering Condition

Example of Reflow Soldering Condition

1. Heating method:
Double heating method with infrared heater.
2. Temperature measurement:
Thermocouple 0.1 to 0.2 Φ CA (K) or CC (T) at solder joints (copper foil surface). A heat resisting tape should be used to fix thermocouple.
3. Temperature profile



A	B	C	D	E	F	G	H	I	No. of reflows
260℃	230℃	180℃	150℃	2 min.	-	-	40s	-	1 time

- (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, 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

Tip temperature	350±5℃
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Soldering time	3s max.
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No. of solders

1 time

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. 4-directional operating force and travel are measured at 4.3mm height from the bottom of the switch.
3. Please place purchase orders for taping products per minimum order unit (1 reel or a case).