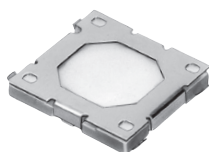


0.9mm low-profile, double action type.



■ Typical Specifications

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10μA 1V DC
Initial contact resistance	100mΩ max.
Travel (mm)	1st 0.25 All 0.4

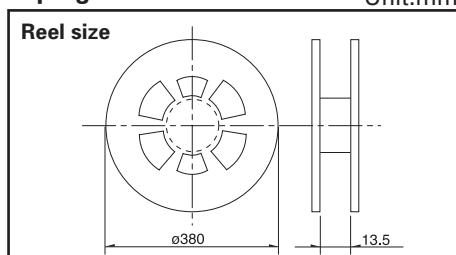
■ Product Line

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Guide bosses	Minimum order unit (pcs.)	
					Japan	Export
SKRNP AE010	1st 0.78N 2nd 2.45N	Toppush	30,000cycles	Without	5,000	5,000
SKRNP BE010				With		
SKRNP CE010	Without					
SKRNP DE010	100,000cycles		Without			
SKRNP EE010			With			
SKRNP ME010						

■ Packing Specifications

Taping

Unit:mm

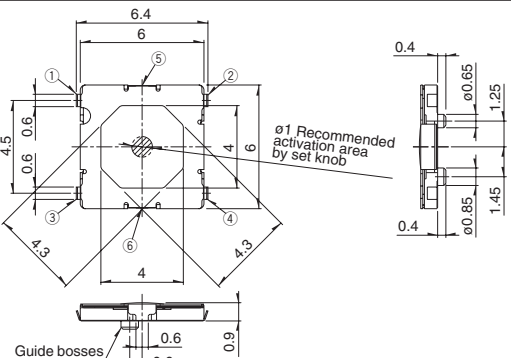
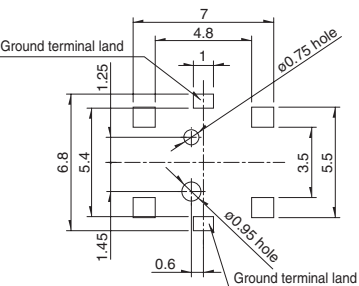


Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case / Japan	1 case / export packing		
5,000	50,000	50,000	12	401 × 401 × 214

Note For reels of 330mm diameter, please inquire.

■ Dimensions

Unit:mm

Dimensions Style	PC board mounting hole and land dimensions (Viewed from switch mounting face)
 Technical drawing of the switch assembly. The top view shows a square base with a central circular feature. Dimensions include: overall width 6.4, inner width 6, outer width 4.5, and various internal offsets (0.6, 4.3, 4.0, 4.0, 4.0, 4.0). A central circular feature is labeled "ø1 Recommended activation area by set knob". The side view shows the profile of the switch with dimensions: 0.4, 0.65, 1.25, 0.85, 1.45, 0.4, 0.6, and 0.9. The bottom view shows the base with dimensions: 0.6, 0.6, and 0.9. The text "Guide bosses" is present.	 Technical drawing of the PC board mounting hole and land dimensions. The drawing shows a square base with a central circular feature. Dimensions include: overall width 7, inner width 4.8, outer width 6.8, and various internal offsets (1.25, 5.4, 3.5, 5.5, 1.45, 0.6). The central circular feature is labeled "ø0.75 hole" and "ø0.95 hole". The text "Ground terminal land" is present.

■ Circuit Arrangement

Switch circuit configuration	[1st action]	[2nd action]

Refer to **P.288** for soldering conditions.

List of Varieties

Type		Sharp Feeling Type											
		Surface Mount											
Series		SKRN	SKSE	SKSV	SKSW	SKSF	SKSM	SKSG	SKRK	SKRP	SKQM	SKQY	SKSU
Photo													
Features		Double action		Compact size Low-profile				Compact size Low-profile		High operation force Compact size	Compact size		Middle travel
Water-proof		—	—	●	●	—	●	—	—	—	—	—	●
Dust-proof		—	—	●	●	○	●	—	—	—	—	○	●
Operating direction	Toppush	●	—	●	●	●	●	●	●	●	●	●	●
	Sidepush	—	●	—	—	—	—	—	—	—	—	—	—
Dimensions (mm)	W	□ 6	5.9	2.8	3.0	2.8	3.4	3	3.9	4.2	6	6.1	5.3
	D		2.87	1.9	2	2.4	2.9	2.7	2.9	3.2	3.5	3.7	5.4
	H		0.9	3	0.5	0.58	0.65	0.7	1.4	1.5	2.5	4.3	2.5
Operation force coverage	~1N	※											
	1N~2N		↕	↕	↕	↕	↕	↕	↕	↕	↕		
	2N~3N												
	3N~4N												
	4N~5N												↕
Travel (mm)		※		0.12	0.13	0.1		0.12	0.13	0.2	0.25		0.7
Ground terminal		●	●	—	—	—	—	●	—	—	—	●	—
Operating temperature range		- 30℃ to + 85℃											
Automotive use		—	—	—	—	—	—	○	—	●	●	●	●
Life Cycle													
Rating (max.) (Resistive load)		50mA 12V DC								50mA 16V DC	50mA 12V DC		50mA 16V DC
Rating (min.) (Resistive load)		10 μA 1V DC											
Electrical performance	Insulation resistance	100MΩ min. 100V DC for 1min.											
	Voltage proof	250V AC for 1min.	100V AC for 1min.						250V AC for 1min.				
Durability	Vibration	10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2hours respectively											
	Lifetime	Shall be in accordance with individual specifications.											
Environmental performance	Cold	- 30±2℃ for 96h											
	Dry heat	80±2℃ for 96h											
	Damp heat	60±2℃ , 90 to 95%RH for 96h											
Page		255	256	257	258	259	260	261	262	263	264	265	266

W : Width. The most outer dimension excluding terminal portion.
D : Depth. The most outer dimension excluding terminal portion.
H : Height. The minimum dimension if there are variances.

- TACT Switch™ Soldering Conditions 288
- TACT Switch™ Cautions 289

Notes

- The automotive operating temperature range to be individually discussed upon request.
- indicates applicability to all products in the series, while ○ indicates applicability to some products in the series.
- ※ See the relevant pages for respective product descriptions

TACT Switch™ Soldering Conditions

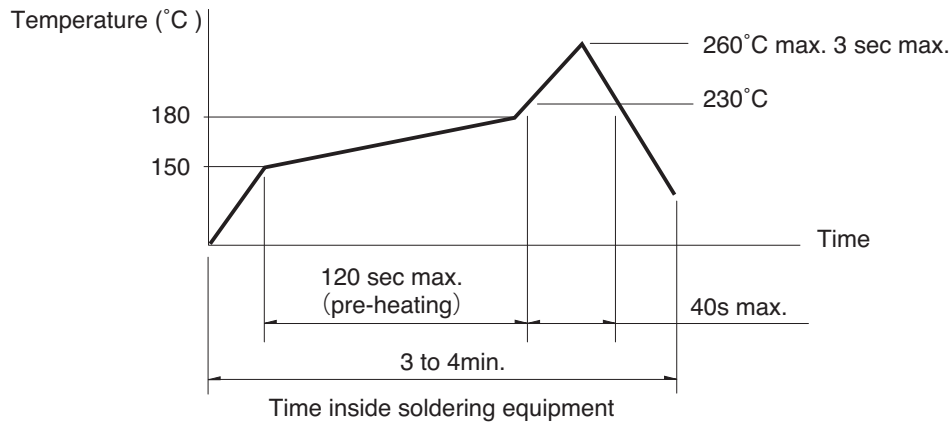
Condition for Reflow

Available for Surface Mount Type.

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 resistive tape should be used to fix thermocouple.

3. Temperature profile

Detector
Push
Slide
Rotary
Encoders
Power
Dual-in-line
Package Type
TACT Switch™



Notes

1. The above temperature shall be measured of the top of switch. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the material, size, thickness of PC boards and others. 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.

Conditions for Auto-dip

Available for Snap-in Type and Radial Type

Items	Condition
Flux built-up	Mounting surface should not be exposed to fluk
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKHH、SKPD Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to fluk
Preheating temperature	Ambient temperature of the soldered surface of PC board. 110°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKQJ、SKQK、SKEG Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to fluk
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	45s max.
Soldering temperature	255°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

Notes

1. Consult with us for availability of TACT Switch™ washing.
2. Prevent flux penetration from the top side of the TACT Switch™.
3. Switch terminals and a PC board should not be coated with flux prior to soldering.
4. The second soldering should be done after the switch is stable with normal temperature.
5. Use the flux with a specific gravity of min 0.81.
(EC-19S-8 by TAMURA Corporation, or equivalents.)

Manual Soldering (Except SKRT Series)

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

SKHH、SKHW、SKRG、SKPD Series

Items	Condition
Soldering temperature	360°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

SKQJ、SKQK、SKEG Series

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	20W max.