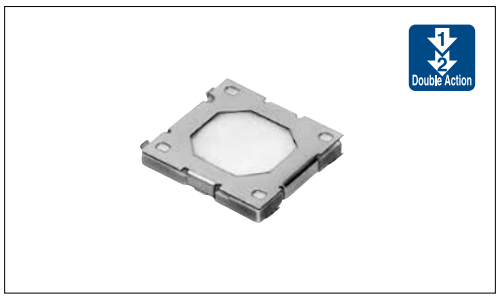
SKRN 6mm Square Low-profile Double Action (Surface Mount Type)

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

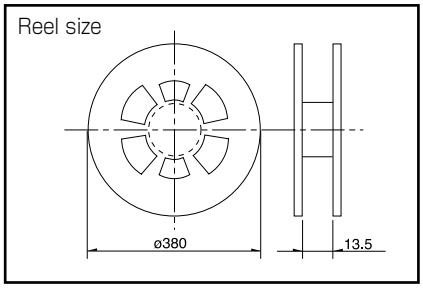
Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Guide bosses	Minimum order unit (pcs.)	
					Japan	Export
SKRNPAE010	1st 0.78N 2nd 2.45N	Top push	30,000 cycles	Without	5,000	5,000
SKRNPBE010				With		
SKRNPCE010	1st 0.78N 2nd 1.57N			Without		
SKRNPDE010						
SKRNPEE010	1st 0.59N 2nd 1.57N		100,000 cycles	With		
SKRNPME010						

Packing Specifications

Taping

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	395×395×205

Unit:mm



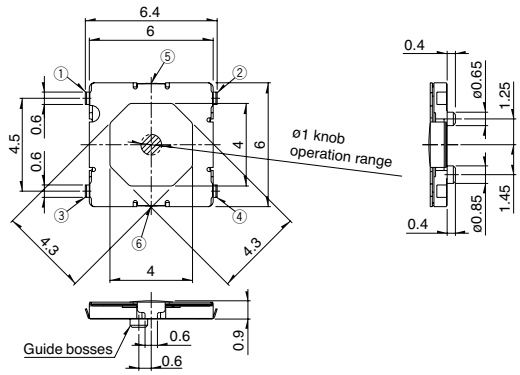
Note

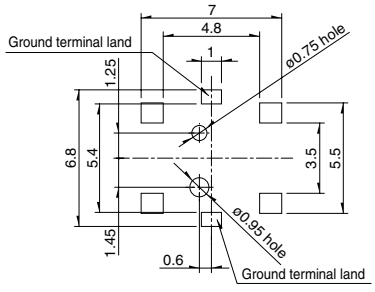
For reels of 330mm diameter, please inquire.

Dimensions

Unit:mm

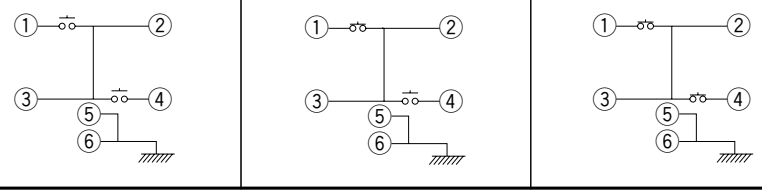
Style	PC board mounting hole and land dimensions (Viewed from switch mounting face)





Circuit Arrangement

Switch circuit configuration	〔1st action〕	〔2nd action〕



Refer to P.249 for soldering conditions.

TACT Switch™

List of Varieties

Type		Sharp Feeling Type						
		Surface Mount						
Series		**SKSD**	**SKRN**	**SKTA**	**SKSV**	**SKSW**	**SKTK**	**SKSG**
Photo								
Features		Double action		Compact size Low-profile			Long life	High operation force Compact size
Water-proof		—	—	●	●	●	●	—
Dust-proof		—	—	●	●	●	●	—
IP standard		—	—	67 equivalent 68 equivalent in some cases	67 equivalent	67 equivalent 68 equivalent in some cases	67 equivalent	—
Operating direction	Top push	●	●	●	●	●	●	●
	Side push	—	—	—	—	—	—	—
Dimensions (mm)	W	4.1	□6	2.6	2.8	3	5.9	3
	D	3.9		1.6	1.9	2	4	2.7
	H	0.6	0.9	0.53	0.55	0.6	0.78	1.4
Operation force coverage	1N max. 1N to 2N 2N to 3N 3N to 4N 4N to 5N	See the relevant pages for respective product descriptions						
Travel (mm)		See the relevant pages for respective product descriptions		0.11	0.12	See the relevant pages for respective product descriptions	0.25	0.12
Ground terminal		●	●	—	—	—	—	○
Operating temperature range		−40℃ to +90℃		−30℃ to +85℃				−40℃ to +85℃
Automotive use		—	—	—	—	—	—	●
Life Cycle		★2	★2	★2	★2	★2	★2	★2
Electrical performance	Rating (max.) (Resistive load)	50mA 12V DC						
	Rating (min.) (Resistive load)	10μA 1V DC						
	Insulation resistance	100MΩ min. 100V DC 1min.						
	Voltage proof	100V AC 1min.	250V AC 1min.	100V AC 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 2 hours respectively						
	Lifetime	Shall be in accordance with individual specifications.						
Environmental performance	Cold	−40℃ 96h						
	Dry heat	90℃ 96h						
	Damp heat	60℃, 90 to 95%RH 96h						
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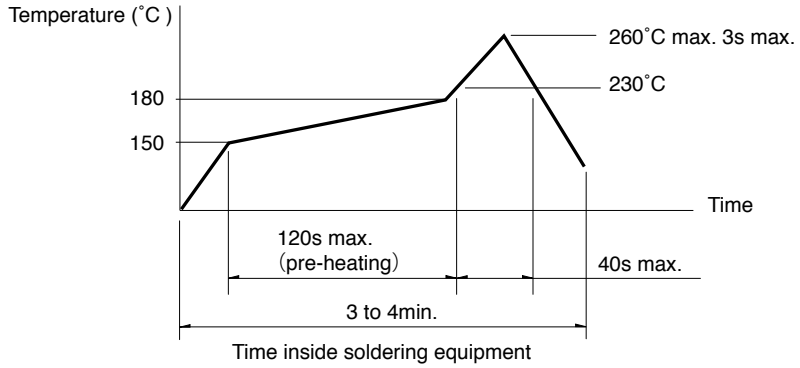
W : Width. The most outer dimension excluding terminal portion.
D : Depth. The most outer dimension excluding terminal portion.
H : Height. The minimum dimension if there are variances.

TACT Switch™ Soldering Conditions · · ·

Condition for Reflow

Available for Surface Mount Type.

Temperature profile



Notes

1. Please confirm the specifications of our product for the detailed condition.
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 flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100℃ max.
Preheating time	60s max.
Soldering temperature	260℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKHH Series

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

SKHLTop Push Type, **SKQJ Series**

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

Manual Soldering

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

SKHH, SKHW Series

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

SKTD, SKTG, SKQJ Series

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

Notes

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