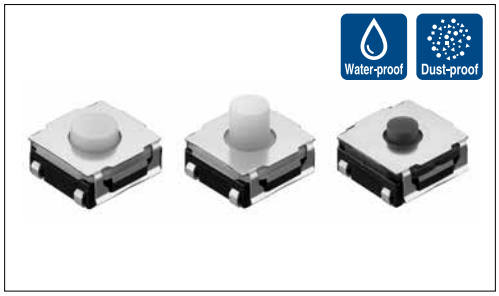
SKRA 6.2mm Square with Middle-travel (Surface Mount Type)

Rubber stem helps to achieve travel of 0.3 to 0.55mm & over travel



Typical Specifications

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10μA 1V DC
Initial contact resistance	100mΩ max.
Protective structure ※	IP67 equivalent (Except SKRAAW)

Product Line

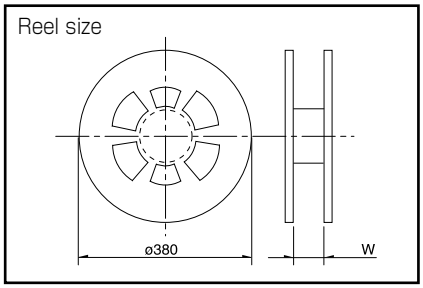
Product No.	Operating force	Operating direction	Travel (mm)	Operating life (5mA 5V DC)	Stem color	Minimum order unit (pcs.)	
						Japan	Export
SKRAAWE010	0.6N	Top push	0.3	4,000,000 cycles	Blue	3,000	3,000
SKRAAKE010	2.45N			100,000 cycles	White		
SKRAALE010	3.92N		0.35				
SKRAAME010	1.96N		0.5		Blue	1,400	1,400
SKRAAQE010	3.43N		0.55				

Packing Specifications

Taping

Series	Number of packages (pcs.)			Real width W (mm)	Tape width (mm)	Export package measurements (mm)
	1 reel	1 case /Japan	1 case /export packing			
SKRAAK SKRAAL SKRAAW	3,000	30,000	30,000	13.5	12	395×395×205
SKRAAM SKRAAQ	1,400	11,200	11,200	17.5	16	

Unit:mm



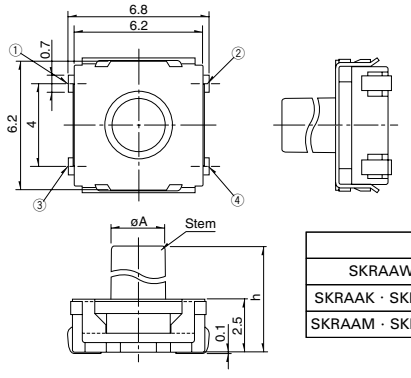
Note

For reels of 330mm diameter, please inquire.

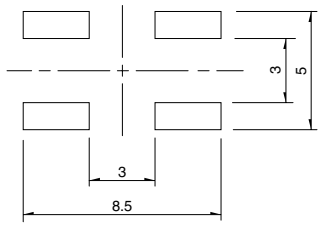
Dimensions

Unit:mm

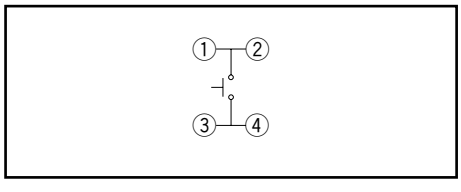
Style	PC board land dimensions (Viewed from switch mounting face)



	h	A
SKRAAW	3.4	2.0
SKRAAK · SKRAAL	3.4	2.9
SKRAAM · SKRAAQ	5.1	2.5



Circuit Diagram



※ Assumes the switch is left alone without being operated. Under the specified conditions, dust and water ingress with a significant impact on the switch's on-off function is prevented.
IP67 dust and water resistance is guaranteed for the switch alone and performance may not be guaranteed depending on the mounting conditions and usage.

Refer to P.249 for soldering conditions.

TACT Switch™

List of Varieties

Type		Sharp Feeling Type							
		Surface Mount							
Series		SKST	SKRA	SKHM	SKHU	SKTD	SKSN	SKTG	SKSL
Photo									
Features		Middle travel		—	—	Low-profile	Mid-mount	Half-mount	
Water-proof		—	○	—	○	●	—	●	—
Dust-proof		—	○	—	○	●	—	●	—
IP standard		—	67 equivalent	—	—	67 equivalent	—	67 equivalent	—
Operating direction	Top push	●	●	●	●	—	—	—	—
	Side push	—	—	—	—	●	●	●	●
Dimensions (mm)	W	□8.5	□6.2	6.2	6.2	3.9	6.2	5.2	4.5
	D			6.5	6.3	2.9	3	3.5	2.6
	H	3.95	3.5/5.2	3.1	2.5/3.1	1.55	3.5	1.55	2.2
Operation force coverage	1N max.	4N to 10N							
	1N to 2N								
	2N to 3N								
	3N to 4N								
	4N to 5N								
Travel (mm)		0.9	See the relevant pages for respective product description	0.25		0.15	0.2	0.15	
Ground terminal		—	—	●	●	●	●	●	●
Operating temperature range		−40℃ to +90℃		−40℃ to +85℃		-30℃ to +85℃	-40℃ to +85℃	−30℃ to +85℃	
Automotive use		●	○	—	○	—	—	—	—
Life Cycle		2	3	3	3	2	2	2	2
Electrical performance	Rating (max.) (Resistive load)	50mA 16V DC	50mA 12V DC						
	Rating (min.) (Resistive load)	10μA 1V DC							
	Insulation resistance	100MΩ min. 100V DC 1min.							
	Voltage proof	250V AC 1min.				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℃ 1,000h		−40℃ 96h					
	Dry heat	90℃ 1,000h		90℃ 96h		85℃ 96h	90℃ 96h	85℃ 96h	90℃ 96h
	Damp heat	60℃, 90 to 95%RH 1,000h		60℃, 90 to 95%RH 96h					
Page		230	231	232	233	235	236	237	238

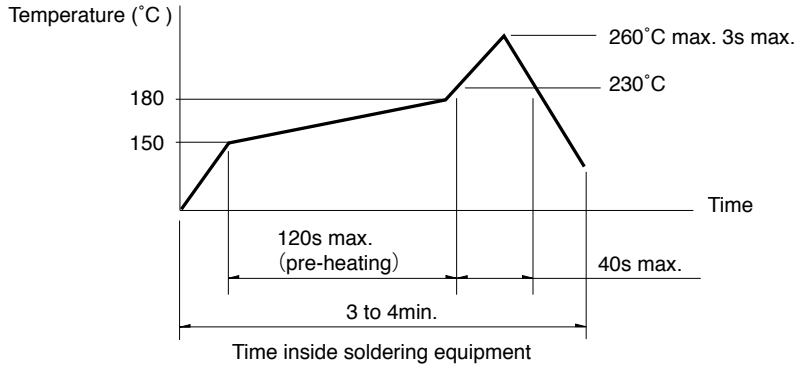
W : Width. The most outer dimension excluding terminal portion.
D : Depth. The most outer dimension excluding terminal portion.
H : Height. The minimum dimension if there are variances.

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.)