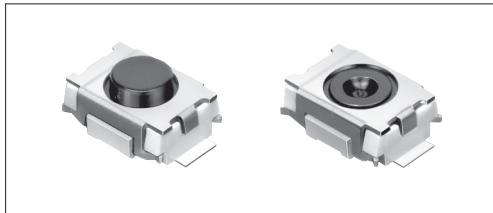




1.5mm or 2mm stem height contribute to smaller and thinner sets.

Detector  
Push  
Slide  
RotaryEncoders  
Power  
Dual-in-line  
Package Type  
TACT Switch™**Typical Specifications**

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10μA 1V DC
Travel (mm)	0.13

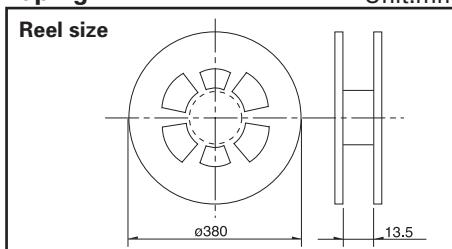
**Product Line**

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Initial contact resistance	Stem height	Minimum order unit (pcs.)		Drawing No.
						Japan	Export	
SKRKAEE010	1.57N	Toppush	200,000cycles	100mΩ max.	2mm	4,500	4,500	1
SKRKAHE010	0.98N			500mΩ max.				
SKRKAGE010	1.57N			100mΩ max.	1.5mm	5,000	5,000	2

**Packing Specifications**

## Taping

Unit:mm

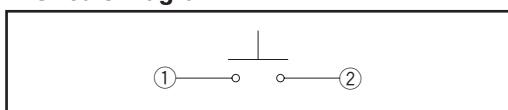


Series	Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
	1 reel	1 case / Japan	1 case / export packing		
SKRKAEE010 SKRKAHE010	4,500	45,000	45,000	12	401 × 401 × 214
SKRKAGE010	5,000	50,000	50,000		

**Note** For reels of 330mm diameter, please inquire.**Dimensions**

Unit:mm

No.	Photo	Style	PC board land dimensions (Viewed from switch mounting face)
1			
2			

**Circuit Diagram**

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	3.85									
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°C to + 85°C																				
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°C for 96h																				
	Dry heat	80±2°C for 96h																				
	Damp heat	60±2°C , 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

**Notes**

1. The automotive operating temperature range to be individually discussed upon request.
2. ● indicates applicability to all products in the series, while ○ indicates applicability to some products in the series.
3. \* See the relevant pages for respective product descriptions

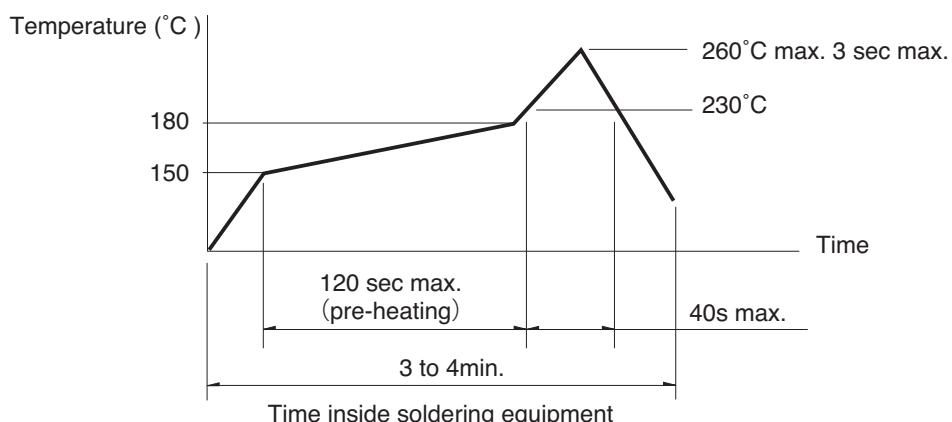
## TACT Switch™ Soldering Conditions

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

### SKHH, SKPD Series

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

### SKQJ, SKQK, SKEG Series

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

### Manual Soldering (Except SKRT Series)

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

### SKHH, SKHW, SKRG, SKPD Series

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

### SKQJ, SKQK, SKEG Series

Items	Condition
Soldering temperature	350°C max.
<b>Duration of soldering</b>	3s max.
Capacity of soldering iron	20W 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.)