

**SKQY****6.1 × 3.7mm (Surface Mount Type)**Compact switch with contact sealing structure,  
also available with ground terminal**■ Typical Specifications**

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10μA 1V DC
Initial contact resistance	500mΩ max.
Travel (mm)	0.25

**■ Product Line**

Top push type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Minimum order unit (pcs.)	
				Japan	Export
<b>SKQYACE010</b>	0.98N	Top push	50,000 cycles	3,000	3,000
<b>SKQYAAE010</b>	1.57N				
<b>SKQYABE010</b>	2.55N				
<b>SKQYAFE010</b>	3.14N				

With ground terminal type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Minimum order unit (pcs.)	
				Japan	Export
<b>SKQYPCE010</b>	0.98N	Top push	50,000 cycles	3,000	3,000
<b>SKQYPAE010</b>	1.57N				
<b>SKQYPBE010</b>	2.55N				
<b>SKQYPDE010</b>	3.14N				

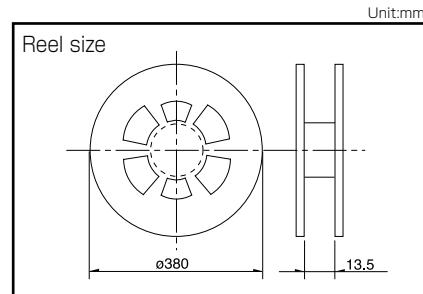
**■ Packing Specifications**

Taping

Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case / Japan	1 case / export packing		
3,000	30,000	30,000	12	395×395×205

**Note**

For reels of 330mm diameter, please inquire.



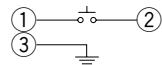
Refer to P.249 for soldering conditions.

## Dimensions

Unit:mm

Style	PC board land dimensions (Viewed from switch mounting face)
 Parts indicated by (※) apply only to products with a ground terminal.	 ※ Ground terminal land exists only on types with ground terminal.

## Circuit Diagram



Parts indicated by (③) apply only to products with a ground terminal.

Type		Sharp Feeling Type																		
		Surface Mount																		
Series		SKRK	SKTH	SKRP	SKQM	SKQY	SKTQ	SKTR	SKSU											
Photo																				
Features		Compact size Low-profile	Compact size	High operation force Compact size	Compact size			Middle travel												
Water-proof		—	—	—	—	—	—	—	●											
Dust-proof		—	●	—	—	—	—	—	●											
IP standard		—	—	—	—	—	—	—	67 equivalent											
Operating direction	Top push	●	●	●	●	●	●	●	●											
	Side push	—	—	—	—	—	—	—	—											
Dimensions (mm)	W	3.9	3.5	4.2	6	6.1	5.3	□6.1	5.3											
	D	2.9	3.2		3.5	3.7	5.4		5.4											
	H	1.5/2	1.8/2.5	2.5	4.3/5	2.5	4.25	4.1	3.85/4.34											
Operation force coverage	1N max.			1N to 2N			2N to 3N													
	3N to 4N			4N to 5N																
	Travel (mm)	0.13	0.12	0.2	0.25		0.71	0.72	0.7/0.9											
	Ground terminal	—	—	—	—	○	—	—	—											
	Operating temperature range	-40°C to +85°C		-40°C to +90°C																
Automotive use		—	●	●	●	●	●	●	●											
Life Cycle																				
Electrical performance	Rating (max.) (Resistive load)	50mA 12V DC	25mA 16V DC	50mA 16V DC	50mA 12V DC			50mA 16V 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.																
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°C 96h		-40°C 1,000h	-40°C 96h		-40°C 1,000h													
	Dry heat	90°C 96h		90°C 1,000h	90°C 96h		90°C 1,000h													
	Damp heat	60°C, 90 to 95%RH 96h		60°C, 90 to 95%RH 1,000h	60°C, 90 to 95%RH 96h		60°C, 90 to 95%RH 1,000h													
Page		218	220	222	224	225	227	228	229											

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	249
TACT Switch™ Cautions	250

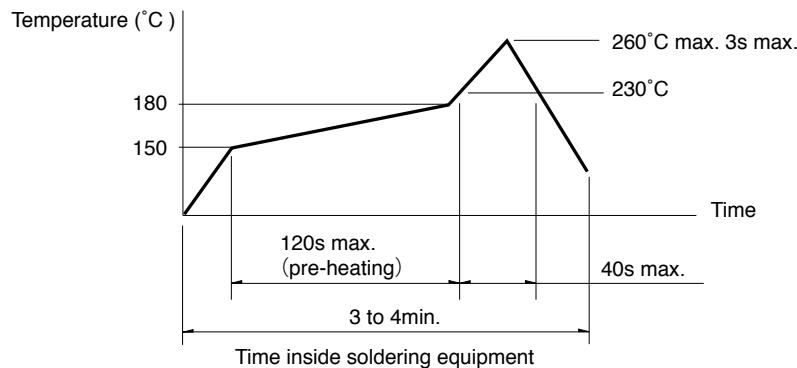
## Notes

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.

## 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°C max.
Preheating time	60s max.
Soldering temperature	260°C 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°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

## SKHL Top 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°C max.
Preheating time	45s max.
Soldering temperature	255°C max.
Duration of immersion	5s max.
Number of soldering	2times 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.)

## Manual Soldering

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

## SKHH, SKHW Series

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

## SKTD, SKTG, SKQJ Series

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

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Authorized Distributor

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ALPS:

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[SKQYPDE010](#)