# SKRK

# 3.9 × 2.9mm Compact (Surface Mount Type)

# 1.5mm or 2mm height contribute to smaller and thinner sets





### ■ Typical Specifications

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

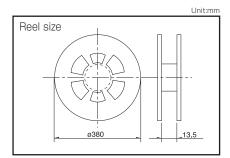
### ■ Product Line

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Initial contact resistance	Height	Minimum ord Japan	er unit (pcs.) Export	Drawing No.
SKRKAHE020	0.98N			500mΩ max.	0.72.72	4.500	4.500	,
SKRKAEE020	1.570	Top push	200,000 cycles	100=0 ====	2mm	4,500	4,500	'
SKRKAGE020	1.57N			100mΩ max.	1.5mm	5,000	5,000	2

# ■ Packing Specifications

#### [aping

Series	Number of packages (pcs.)			Tape width	Export package
Selles	1 reel	1 case /Japan	1 case / export packing	(mm)	measurements (mm)
SKRKAE SKRKAH	4,500	45,000	45,000	12	395×395×205
SKRKAG	5,000	50,000	50,000	IZ.	393/393/203



### Note

For reels of 330mm diameter, please inquire.

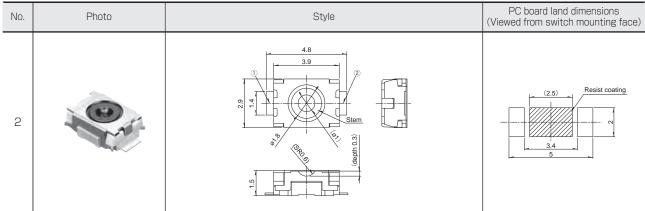
# Dimensions

	mensions		Unit:mm
No.	Photo	Style	PC board land dimensions (Viewed from switch mounting face)
1		4.8 3.9 01.8 Stem	(2.5)  Resist coating  3.4 5

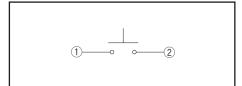
# SKRK $/3.9 \times 2.9$ mm Compact (Surface Mount Type)

Soft Feeling Snap-in Type

Dimensions



# Circuit Diagram



# List of Varieties

TACT Switch"

Sharp Feeling

ling Snap

Mount Type

	Type Series								
	Series				Surface	Mount			
		SKRK	SKTH	SKRP	SKQM	SKQY	SKTQ	SKTR	SKSU
	Photo	•	-				NEW		-
	Features	Compact size Low-profile	Compact size	High operation force Compact size	Compa	ct size		Middle travel	
W	Vater-proof	_	_	_	_	_	_	_	•
[	Dustproof	_	•	_	_	_	_	_	•
IF	P standard	_	_	_	_	_	_	_	67 equivalent
Operating	Top push	•	•	•	•	•	•	•	•
direction		_	_	_	_	_	_	_	_
	W	3.9	3.5	4.2	6	6.1	5.3		5.3
Dimension: (mm)	D D	2.9	3.	2	3.5	3.7	5.4	□6.1	5.4
(11111)	Н	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	2N to 3N	1			1		1	<b>‡</b>	<b>‡</b>
Tr	ravel (mm)	0.13	0.12	0.2	0.2	25	0.71	0.72	0.7/0.9
	ound terminal		_	_	_	0	_		_
Operating temperature range -40		-40°C to +85°C							
Aut	tomotive use	_	•	•	•	•	•	•	•
l	Life Cycle	<b>*</b> 2	<b>*</b> 2	*3	<b>2</b>	<b>*</b> 2	*3	*3	*3
	Rating (max.) (Resistive load)	50mA 12V DC	25mA 16V DC	50mA 16V DC	50mA 1	2V DC	Ę	50mA 16V D	C
Electrical	Rating (min.) (Resistive load)				10μΑ	IV DC			
performance II	Insulation resistance		100MΩ min. 100V DC 1min.						
	Voltage proof	250V AC 1min.	100V AC 1min.	-		250V A	C 1min.		
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									
Durability —	Lifetime	ifetime Shall be in accordance with individual specifications.							
Cold −40°C 96h		-40℃ 1,000h	.000h -40°C 96h -40°C 1,00		-40°C 1,000h	1			
Environmental performance Dry heat		90°C	90°C 1,000h 90°C 1,000h 90°C 1,000h						
	Damp heat	60°C, 90 to 9	95%RH 96h	60°C, 90 to 95%RH 1,000h 60°C, 90 to 95%RH 96h 60°C, 90 to 95%R			90 to 95%RH	1,000h	
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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.

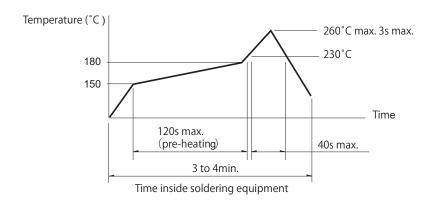
#### Notes

- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. lacktriangle Indicates applicability to all products in the series, while  $\bigcirc$  indicates applicability to some products in the series.



# 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°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℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

# ■ 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, SKSN Series

Items	Condition
Soldering temperature	350°C 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 $^{TM}$ .
- 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.)