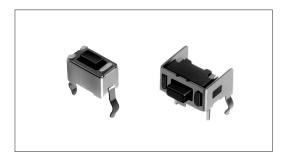
## **TACT** Switch™ 6×3.5mm Compact (Snap-in Type)

**SKHL** Series



## A vertical and horizontal type switch contributing to high density mounting.



Product Line

**Vertical Type** 

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 12V DC)	Initial contact resistance	Stem color	Stem height	Minimum order unit (pcs.)	Drawing No.							
SKHLAAA010	0.98N					50,000		Black										
SKHLACA010	1.57N		/ertical 0.25	50mA	10 <i>μ</i> Α	cycles		Dark gray	h=4.3mm									
SKHLAJA010	2.55N	Vertical				10 <i>μ</i> Α	10 <i>μ</i> Α	10 <i>μ</i> Α	10 <i>μ</i> Α	10 <i>μ</i> Α	10 <i>μ</i> Α	10 <i>μ</i> Α	10 <i>μ</i> Α	10 <i>μ</i> Α	10 <i>μ</i> Α	10 <i>μ</i> Α	30,000 cycles	500m Ω
SKHLABA010	0.98N	vertical	0.25	12V DC	1V DC	======	max.	Black		1,000	'							

50,000 cycles

30,000

**Horizontal Type** 

SKHLADA010

SKHLAKA010

1.57N

2.55N

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (max.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Terminal length	Minimum order unit (pcs.)	Drawing No.
SKHLLAA010	0.98N					50,000		Black			
SKHLLBA010	1.57N					cycles		Dark gray	ℓ =3.5mm (PC board t : 1.6)		
SKHLLFA010	2.55N	Horizontal	0.25	50mA 12V DC	10μA 1V DC	30,000 cycles	$500$ m $\Omega$ max.	Red		1,000	2
SKHLLCA010	0.98N					50,000		Black	ℓ =2.5mm		
SKHLLDA010	1.57N					cycles		Dark gray	(PC board t : 1.0)		

Packing Specifications

**Bulk** 

Number of pa	Export package measurements		
1 case /Japan	1 case /export packing	(mm)	
10,000	30,000	309 × 476 × 347	

Note

Please place purchase orders per minimum order unit N (integer).

Detector

Push

Slide

Rotary

**Encoders** 

Power

Dual-in-line

Package Type

TACT Switch™

Custom-**Products** 

h=5mm

gray

Red

Sharp Feeling

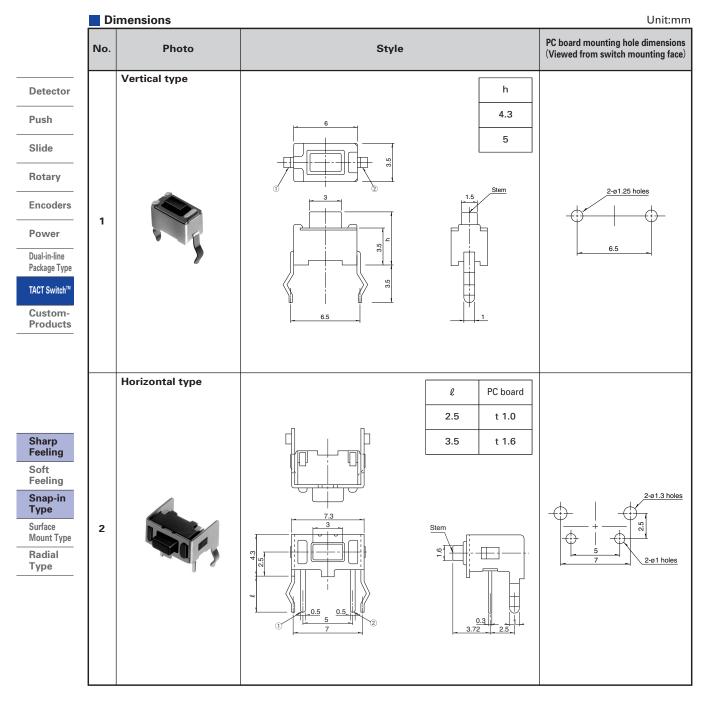
**Feeling** 

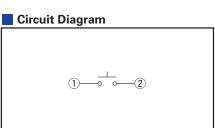
Snap-in Type

Surface Mount Type Radial

Type

### 6×3.5mm Compact (Snap-in Type) SKHL Series





## List of Varieties

### Sharp Feeling Type

QB SKQU  ter— oof witch+pu switch										
switch+pu										
switch+pu										
switch+pu										
)										
_										
- □10										
		7.1								
See the relevant pages for respective product										
description.3										
−20°C to +70°C SKHL(Vertical Type)/QJ										
-30°C to +85°C										
100MΩ min. 100V DC										
250V AC for 1min.										
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										
−30±2°C for 96h										
92 485										
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  Shall be in accordance with individual specifications. $-30\pm2^{\circ}\text{C for 96h}$ $80\pm2^{\circ}\text{C for 96h}$ $60\pm2^{\circ}\text{C, 90 to 95\%RH for 96h}$										

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 · · · · · · · 334

TACT Switch™ Cautions
 Product Line of Knobs for TACT Switch™
 335

### Notes

- 1. The automotive operating temperature range to be individually discussed upon request.
- ●marks in "Available for automotive use" indicate that all of the series products can work at the operating temperature range from -40°C to +85°C.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-Products

Sharp Feeling

Soft Feeling

Snap-in Type Surface

Mount Type

Radial Type

Detector

Push

Slide

**Rotary** 

**Encoders** 

Power

Dual-in-line Package Type

TACT Switch™

Custom-

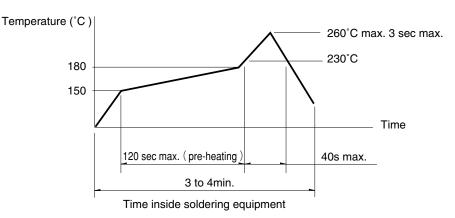
**Products** 

# **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  $0.2\phi$  CA (K) or CC (T) at solder joints (copper foil surface). A heat resistive tape should be used to fix thermocouple.
- 3. Temperature profile



#### 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 (Except, SKHL, SKQJ, SKQK, SKEG series)

Items	Condition
Flux built-up	Mounting surface should not be exposed to fluk
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.

### ■ Manual Soldering (Except SKRT Series)

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

Sharp Feeling
Soft Feeling
Snap-in Type
Surface Mount Type
Radial Type

#### 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.)