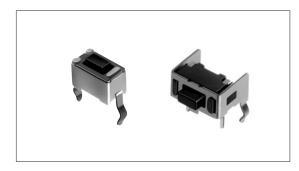
6×3.5mm Compact (Snap-in type)

SKHL Series





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



Features

• Snap-in type allows the switch to be mounted directly onto the PC

Applications

• For various operation in audio equipment, office devices, communication devices, measuring devices, TVs, VCRs and in-car components

Red

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

Multi Control Devices

TACT Switch™

Custom-**Products**

Sharp Feeling

Soft **Feeling**

Snap-in Type Surface

Mount Type Radial Type

Product Line **Vertical Type**

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Minimum packing unit (pcs.)	Drawing No.	
SKHLAAA010	0.98N					50,000		Black				
SKHLACA010	1.57N					cycles		Dark gray	h=4.3mm			
SKHLAJA010	2.55N	Vertical	0.25	50mA	10 <i>μ</i> A 1V DC		30,000 cycles	500m Ω max.	Red		1,000	1
SKHLABA010	0.98N	Vertical	0.25	12V DC			50,000		Black		1,000	
SKHLADA010	1.57N					cycles		Dark gray	h=5mm			

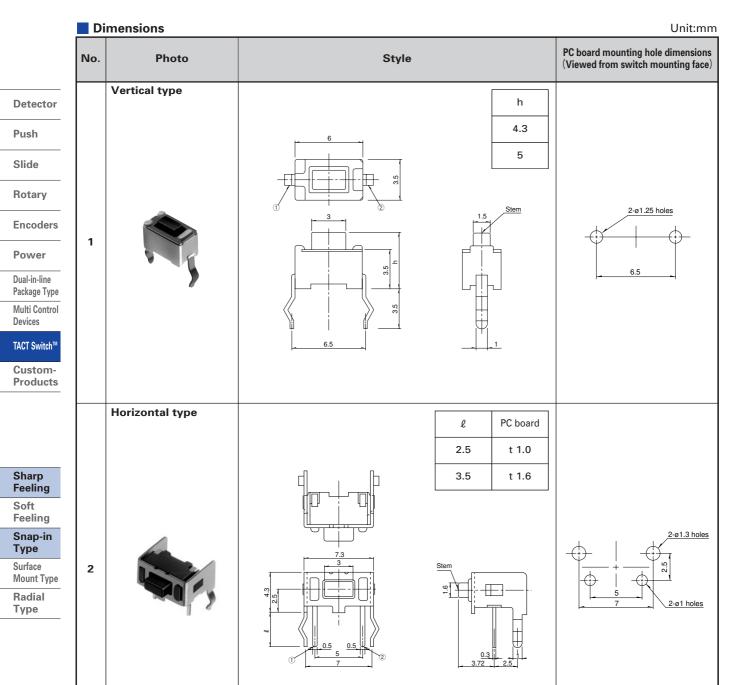
30,000

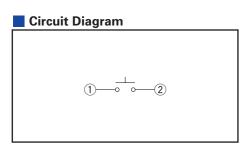
Horizontal Type

SKHLAKA010

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 packing unit (pcs.)	Drawing No.
SKHLLAA010	0.98N					50,000		Black			
SKHLLBA010	1.57N		0.25 50mA 12V DC			cycles		Dark gray	ℓ =3.5mm (PC board t : 1.6)		
SKHLLFA010	2.55N	Horizontal		10μA 1V DC	30,000 cycles	500m Ω 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)		





Product Specifications

Items	Series	Sharp feeling type	Soft feeling type				
Operati	ng temperature range	-20°C to +70°C -20°C to +70°C SKHJ/HL/QJ/RR/QK SKEG					
Operating temperature range		-30°C to +85°C	-40°C to +90°C				
Electrical	Insulation resistance	100MΩmin. 100V DC SKEY/PD : 50MΩmin. 100V DC					
performance	Voltage proof	250V AC for 1minute SKRE/SC/RB/RM/RW/RR/EY/PD : 100V AC for 1minute					
5	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					
Durability	Lifetime	Shall be in accordance with individual specifications.					
	Cold	−30±2°C for 96h					
Environmental performance	Dry heat	80±2°C	for 96h				
	Damp heat	60±2℃, 90 to 95%RH for 96h					

Note

The automotive operating temperature range to be individually discussed upon request.

Specifications of LED (SKHJ)

Color of illumination	Power dissipation P(mW)	Forward pulse peak current IFP(mA)	Forward current IFDC(mA)	Reverse voltage VR (V)	Forward voltage VF(V) IF=10mA	Reverse current IR(μ A) VR=4V	Peak emission wave length λ peak(nm) IF=10mA	Spectral line half width Δ λ (nm) IF=10mA	Luminous intensity IV(mcd) IF=10mA
Red					2.7 max.	5 max.	700 TYP	100 TYP	0.4min. 1.0 TYP
Pure green				4	2.05TYP		555 TYP	20 TYP	0.8min. 2.0 TYP
Amber	40	40 80	15		2.7 max. 2.0 TYP 2.7 max. 2.05TYP	10 max.	590 TYP	30 TYP	0.4min. 1.0 TYP
Orange (High brightness)				3		2.0 TYP	TO IIIax.	630 TYP	40 TYP
Green (High brightness)				4			565 TYP	30 TYP	2.0min. 5.0 TYP

Detector

Push

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Rotary

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Dual-in-line Package Type Multi Control Devices

TACT Switch™

Custom-Products

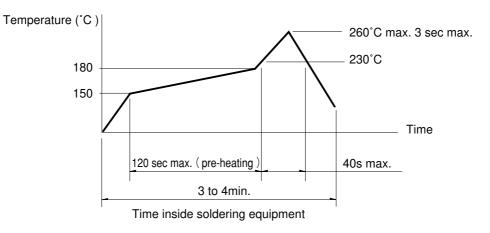
Sharp Feeling Soft Feeling Snap-in Type Surface Mount Type Radial Type

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



TACT Switch™

Custom-Products

Sharp Feeling

Soft

Feeling

Snap-in Type Surface Mount Type Radial Type

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Note

- 1. The above temperature shall be measured on the mounting surface of a PC board. 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 SKHJ, SKHL, SKQJ, SKQK, SKEG series)

Items Conditio

Items	Condition
Flux built-up	Mounting surface should not be exposed to flax
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100℃ 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°C max.			
Duration of soldering	3s max.			
Capacity of soldering iron	60W max.			

Notes

- 1. Consult with us for TACT Switch™ washing conditions.
- 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 returns to normal temperature.
- 5. Use the flux with a specific gravity of min 0.81. (EC-19S-8 by TAMURA Corporation, or equivalents.)