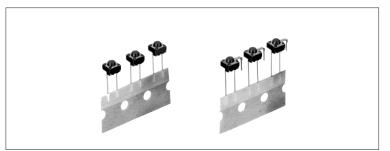
6×6mm TACT Switch (Radial)

SKHV Series

Adovantage in excellent mounting efficiency. Ground terminal rersion is also available.





video recorders, automotive sets, etc.

Applications

• For operating various electronic devices such as audio

devices, office equipment, communication devices, TVs,

Power

Push

Slide

Rotary

Encoders

Detector

Dual-in-line

Devices

Custom-

Package Type Multi Control

TACT

Products

Sharp

Feeling Soft **Feeling** Snap-in Type

Surface Mount Type

Radial Type

Features

- Supplied with radial taping.
- Allows automatic insertion onto PC board with the radial auto insertion machine.

Products Line

Vertical Type

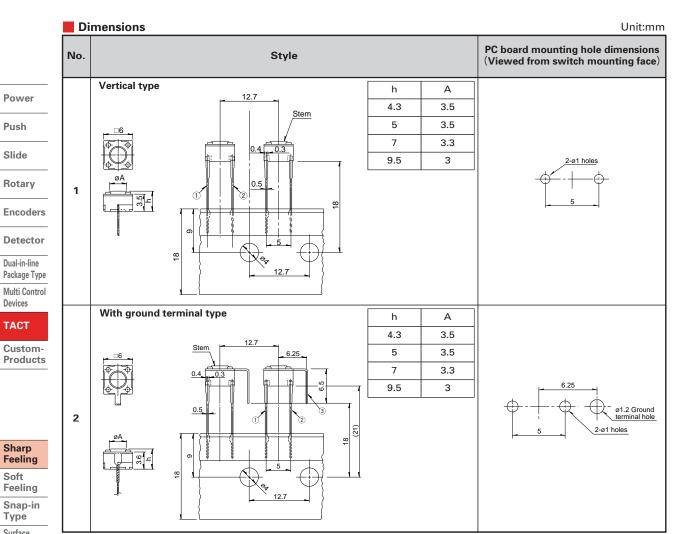
Products No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Drawing No.							
SKHVBAD010	0.98N				1,000,000 cycles		Black	h=4.3mm								
SKHVBBD010	1.57N				500,000 cycles		Dark gray									
SKHVBCD010	2.55N				200,000 cycles		Red									
SKHVBDD010	0.98N				1,000,000 cycles		Black									
SKHVBED010	1.57N			12V DC _	0.25				50mA 20		50. 4	500,000 cycles		Dark gray	h=5mm	
SKHVBFD010	2.55N					0.25						200,000 cycles		Red		
SKHVCED010	5.10N	Vertical									· · · · ·	100m Ω max.	Yellow		1	
SKHVBKD010	0.98N						1,000,000 cycles Bla	Black								
SKHVBLD010	1.57N					500,000 cycles	Dark gray	h=7mm								
SKHVBMD010	2.55N											200,000 cycles		Red	1	
SKHVBGD010	0.98N					1,000,000 cycles		Black		1						
SKHVBHD010	1.57N										500,000 cycles		Dark gray	h=9.5mm		
SKHVBJD010	2.55N				200,000 cycles		Red									

With Ground Terminal Type

with Ground Terminal Type														
Products No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Drawing No.					
SKHVPAD010	0.98N				1,000,000 cycles		Black							
SKHVPBD010	1.57N				500,000 cycles		Dark gray	h=4.3mm						
SKHVPCD010	2.55N				200,000 cycles		Red	ı						
SKHVPDD010	0.98N		0.25 50mA 12V DC			1,000,000 cycles		Black]				
SKHVPED010	1.57N				500,000 cycles		Dark gray	h=5mm						
SKHVPFD010	2.55N	Vertical		0.25	0.25		50mA	50mA	₂₅ 50mA	200,000 cycles	100m Ω	Red]	2
SKHVPKD010	0.98N	vertical					1,000,000 cycles	1,000,000 cycles max. Black	h=7mm] _				
SKHVPLD010	1.57N					500,000 cycles		Dark gray						
SKHVPMD010	2.55N					200,000 cycles Red	Red							
SKHVPGD010	0.98N						1,000,000 cycles		Black					
SKHVPHD010	1.57N								500,000 cycles	0 cycles	Dark gray	h=9.5mm		
SKHVPJD010	2.55N				200,000 cycles		Red							

For detailed specifications, see P.415 For soldering conditions, see P.416

For specifications for the taping package, see P.419



Sharp **Feeling**

Power

Push

Slide

Rotary

Devices

TACT

Soft **Feeling**

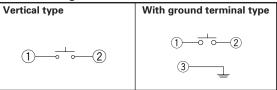
Snap-in Type

Surface Mount Type

Radial Type

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Circuit Diagram



Note

Using a 1.6mm thick PC board is recommended.

Products Specifications

Items	Series	Sharp feeling type	Soft feeling type			
		−20°C to +70°C				
Operating temperature range		−30°C to +85°C SKRM/RW	-30℃ to +80℃ SKPG			
		-30°C to +90°C SKRA/RG/RP	-40°C to +90°C SKPF/PL/PM/PN			
Rating (max.)		50mA 12V DC SKRP : 50mA 16V DC	5mA 12V DC SKPL/PM/PN : 50mA 16V DC			
Rating (min.)		10 μA 1V DC				
Electrical	Insulation resistance	100MΩmin. 100V DC SKEY/PD : 50MΩmin. 100V DC				
performance	Voltage proof	250V AC for 1 min. SKRB/RH/RM/RW/RR/EY/PD : 100V AC for 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		Shall be in accordance with individual specifications.				
Cold		-30±2℃ for 96h				
Environmental performance	Dry heat	80±2℃ for 96h				
Damp heat		60±2℃, 90 to 95%RH for 96h				

Note

We can raise the working temperature range for in-vehicle applications upon request. Contact us if you have any requirements of this kind.

■ Specifications of LED (SKHJ)

Color of light	Power dissipation P(mW)	Forward pulse peak current IFP(mA)	Forward current	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		40 80	15	4	2.7 max. 2.05TYP	5 max.	700 TYP	100 TYP	0.4min. 1.0 TYP
Pure green						10 max.	555 TYP	20 TYP	0.8min. 2.0 TYP
Amber	40				2.7 max. 2.0 TYP		590 TYP	30 TYP	0.4min. 1.0 TYP
Orange (High brightness)				3		io max.	630 TYP	40 TYP	1.5min. 4.0 TYP
Green (High brightness)				4	2.7 max. 2.05TYP		565 TYP	30 TYP	2.0min. 5.0 TYP

Power

Push

Slide

Rotary

Encoders

Detector

Dual-in-line

Package Type

Multi Control Devices

TACT

Custom-Products

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

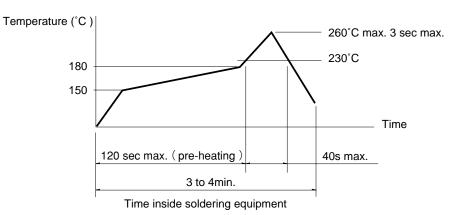
Radial Type

Soldering Conditions

■ Condition for Reflow

Available for Surface Mount Type. (Except SKHM, SKHU, SKRM, SKRR Series)

- 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 soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.
- 3. Temperature profile



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Dual-in-line Package Type

Multi Control Devices

Custom-Products

Notes

- 1. The condition mentioned above is the temperature 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 PC board's material, size, thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.
- 2. Soldering conditions differ depending on reflow soldering machines. You are requested to verify the soldering conditions thoroughly beforehand.

Sharp Feeling

Feeling Snap-in Type

Surface Mount Type Radial

Type

Conditions for Auto-dip Available for Snap-in Type and Radial Type (Except SKHJ, SKHL, SKQC, SKQJ, SKQK, SKEG series)

Items	Condition				
Flux built-up	Mounting surface should not be coated with flax				
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.				
Preheating time	60s max.				
Soldering temperature	260°C max.				
Continuous dipping time	5s max.				
Number of soldering	2times max.				

Manual Soldering Available for Manual Soldering Type

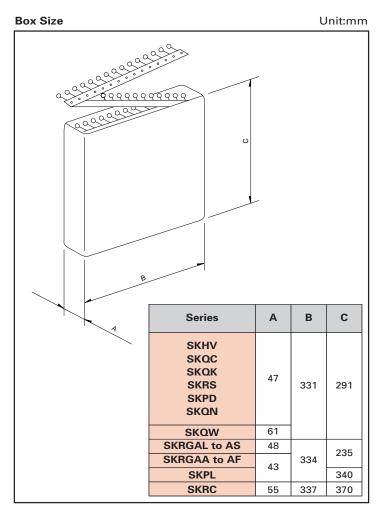
Items	Condition
Soldering temperature	350°C max.
Continuous soldering time	3s max.

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.
- Use the flux with a specific gravity of at least 0.82. (EC-19s-8 by TAMURA Corporation, or their equivalents.)

Specification of Radial Taping Package

■ Taping Packaging for Auto-insertion
The SKHV, SKQC, SKQK, SKQN, SKQW, SKRC, SKRG, SKRS, SKPD and SKPL series are delivered with taping packaging.



Quantity Accommodated Per Box

Series	Oty/reel (pcs.) (Minimum packing unit)
SKHV SKQK	1,000
SKQW SKRS	700
SKQC	1,500
SKPD	800
SKRG	2,000
SKQN SKRC	900
SKPL	2,700

Power

Push

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Rotary

Encoders

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Detector

Dual-in-line Package Type

Multi Control

Devices

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Custom-Products

Sharp Feeling Soft Feeling Snap-in

Type Surface Mount Type

Radial Type