6.0 × 6.0mm TACT Switch (Radial)

SKHV Series

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

Power

Push

Slide

Rotary

Encoders

Jog Shuttle

Telephone -hook

Detector

Vibration Sensors Dual-in-line

Package Type Multi Control

Devices TACT

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.

Applications

 For operating various electronic devices such as audio devices, office equipment, communication devices, TVs, video recorders, etc.

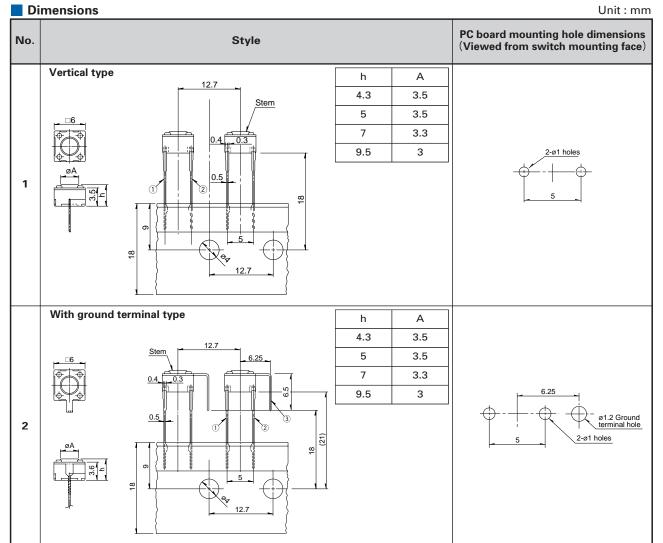
Products Line

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				1,000,000cycles		Black						
SKHVBBD010	1.57N				500,000cycles		Dark gray	h=4.3mm					
SKHVBCD010	2.55N				200,000cycles		Red						
SKHVBDD010	0.98N				1,000,000cycles		Black	h=5mm					
SKHVBED010	1.57N				500,000cycles		Dark gray						
SKHVBFD010	2.55N		rtical 0.25		200,000cycles		Red						
SKHVCED010	5.10N	Vertical		0.25	.25 50mA 12V DC	7h			200,0000cycles	100m Ω max.	Yellow	1	1
SKHVBKD010	0.98N						1,000,000cycles	1	Black		7		
SKHVBLD010	1.57N				500,000cycles		Dark gray	h=7mm					
SKHVBMD010	2.55N				200,000cycles		Red						
SKHVBGD010	0.98N			1,000,000cycles	1	Black		1					
SKHVBHD010	1.57N							500,000cycles		Dark gray	h=9.5mm		
SKHVBJD010	2.55N				200,000cycles		Red						

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				1,000,000cycles		Black								
SKHVPBD010	1.57N				500,000cycles		Dark gray	h=4.3mm							
SKHVPCD010	2.55N		ertical 0.25		200,000cycles		Red								
SKHVPDD010	0.98N				1,000,000cycles		Black	h=5mm]						
SKHVPED010	1.57N				500,000cycles		Dark gray								
SKHVPFD010	2.55N	Vartical		1 1175	0.05	50mA 12V DC	50mA	50mA	50mA	50mA	200,000cycles	100m Ω	Red		2
SKHVPKD010	0.98N	vertical			12V DC		1,000,000cycles Black	max.	Black		7 2				
SKHVPLD010	1.57N							Dark gray	h=7mm						
SKHVPMD010	2.55N						200,000cycles		Red						
SKHVPGD010	0.98N				1,000,000cycles		Black		1						
SKHVPHD010	1.57N						500,000cycles		Dark gray	h=9.5mm					
SKHVPJD010	2.55N				200,000cycles	1	Red								



Circuit Diagram

Vertical type	With ground terminal type
1)	①—————————————————————————————————————

Note

Using a 1.6mm thick PC board is recommended.

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Vibration Sensors

Dual-in-line Package Type Multi Control

Devices

TACT

Sharp Feeling

Soft **Feeling**

Snap-in Type

Surface Mount Type

Radial Type

Products Specifications

Items	Series	Sharp feeling type Soft feeling type				
Operating temperature range		−20°C to +70°C				
		-30°C to +85°C				
		-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 μ A 1V DC				
Electrical	Insulation resistance	$100 M \Omega$ SKEY/PD : $50 M \Omega$				
performance	Voltage proof	250V AC for 1 min. SKRB/RH/RM/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 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	40	40 80	15	4	2.05TYP	max. 10 max	555 TYP	20 TYP	0.8min. 2.0 TYP
Amber					2.7 max.		590 TYP	30 TYP	0.4min. 1.0 TYP
Orange (High brightness)				3	2.0 TYP		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

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Power

TACT

Dual-in-line Package Type Multi Control Devices

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

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Dual-in-line
Package Type

Multi Control

Devices

TACT

Sharp

Feeling
Soft
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Snap-in
Type
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Type

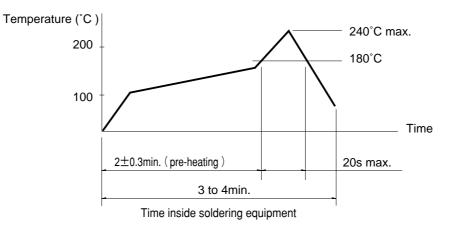
Jog Shuttle

Soldering Conditions

Condition for Reflow

Available for Surface Mount Type. (Except SKHM 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



Notes

- 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.
 (Except a part of Variety SKRM, SKRR Series)
- 2. Soldering conditions differ depending on reflow soldering machines. You are requested to verify the soldering conditions thoroughly beforehand.
- 3. Ask us for the specifications of lead-free products.

Conditions for Auto-dip

Available for Snap-in Type and Radial Type

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	45s max.
Soldering temperature	255℃ 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.
- 5. Use the flux with a specific gravity of at least 0.83. (MH-820V or CF220V by TAMURA Corporation, or their equivalents.)

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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.

Box Size Unit: mm Series Α В С **SKHV** SKQC SKQK 47 331 291 **SKRS SKPD** SKQN 61 SKQW SKRGAL to AS 48 235 SKRGAA to AF 334 43 **SKPL** 340 **SKRC** 55 337 370

Quantity Accommodated Per Box

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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

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Detector

Vibration Sensors Dual-in-line

Package Type
Multi Control

Devices TACT

IACI

Sharp Feeling Soft Feeling Snap-in Type Surface Mount Type

Radial Type