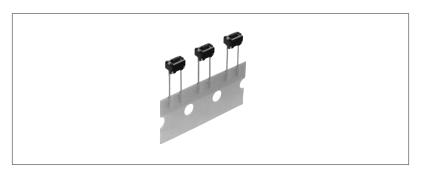
6.0 × 3.5mm Compact TACT Switch (Radial)

SKQC Series

Compact type for high-efficiency, high-density mounting.





For operating various electronic devices such as audio

instruments, TVs, video recorders, automotive sets, etc.

devices, office equipment, communication devices, measuring

Applications

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

Features

- Improve mounting density of components on PC board.
- Supplied with radial taping.
- Allows automatic insertion onto PC board with the radial auto insertion machine.

Products Line

Products No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height
SKQCAAD010	0.98N				50,000 cycles		Black	
SKQCABD010	1.57N				30,000 Cycles		Dark gray	h=4.3mm
SKQCACD010	2.55N	Vertical	0.25	50mA	30,000 cycles	500m Ω	Red	
SKQCADD010	0.98N	Vertical	12V	12V DC	50,000 cycles	max.	Black	
SKQCAED010	1.57N				50,000 cycles		Dark gray	h=5mm
SKQCAFD010	2.55N				30,000 cycles		Red	

Dimensions		Unit:mm
Style		PC board mounting hole dimensions (Viewed from switch mounting face)
12.7 Stem	h	
6	4.3	
0.25	5	
0.5		2-ø1 holes

Circuit Diagram

Using a 1.6mm thick PC board is recommended.

For detailed specifications, see P.415 For soldering conditions, see P.416 For specifications for the taping package, see P.419

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	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°C 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	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		15				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		80			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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Soft Feeling Snap-in

Type
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Mount Type

Radial Type Power

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Sharp Feeling

Snap-in

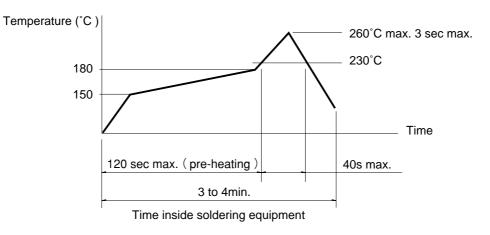
Type
Surface
Mount Type
Radial
Type

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



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.

Soft 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℃ 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

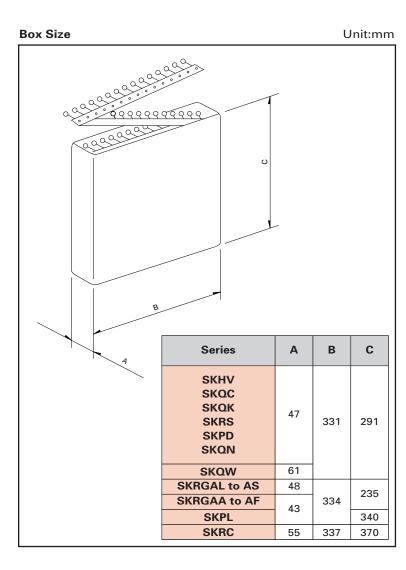
Items	Condition
Soldering temperature	350°C max.
Continuous soldering time	3s max.

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			

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