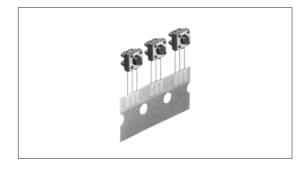
TACT Switch[™] 7.3×6.85mm Side-push[™] (Radial)

SKON Series



Round-terminal, horizontal type with advantage in wide varieties and excellent mounting efficiency.



Features

- Supplied with radial taping.
- Round terminals are most suitable for radial auto-insertion/ mounting on the PC board. (allow to reduce switch rising during mounting process, and to reduce cutter wearing of the cutters of the assemblers.)
- Better solderability thanks to no rupture plane of the terminal.

Applications

- Operation of TVs and display monitors
- Operation of video recorders, various audio devices, communication devices and automotive sets
- For operating various electroic devices

Dual-in-line Package Type Multi Control Devices

Power

Detector

Push

Slide

Rotary

Encoders

TACT Switch™

Custom-**Products**

Sharp Feeling

Soft Feeling

Snap-in

Mount Type

Radial Туре

Туре Surface

Products Line

Products No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color
SKQNLAD010	0.98N	Horizontal	0.25	50mA	10 <i>µ</i> A	100 <i>.</i> 000 cvcles	100mΩ max.	Black
SKQNLBD010	1.57N	HUHZUIILAI	0.25	12V DC	1V DC	100,000 cycles	Tooms max.	Dark gray

Dimensions Unit:mm PC board mounting hole dimensions Style (Viewed from switch mounting face) 12.7 6.35 Stem (3.3)55 (25.1) ø0.5

Notes

1. Refrain from using terminals (1-3) as jumper leads. 2. Using a 1.6mm thick PC board is recommended.

> For other specifications, see P.369 For soldering conditions, see P.370 For specifications for the taping package, see $\ensuremath{\textbf{P.372}}$



Circuit Diagram (3) (1)

ALPS

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Products Specifications

Series		Sharp feeling type	Soft feeling type	
Operating temperature range		−20°C to +70°C SKHJ/HL/QJ/RR/RV/QC/QK	−20°C to +70°C SKEG	Detector
		-30℃ to +85℃	-40℃ to +90℃	Push
Electrical	Insulation resistance	100MΩmin. 100V DC SKEY/PD : 50MΩmin. 100V DC		
performance	Voltage proof	250V AC SKRE/SKSC/SKRB/RV/RH/RM/RV	Rotary	
-	Vibration	10 to 55 to 10Hz/min., the amplitude is 3 direction of X, Y and Z	Encoders	
Durability -	Lifetime	Shall be in accordance with individual specifications.		Power
	Cold	-30±2℃	Dual-in-line Package Type	
Environmental performance	Dry heat	80±2°C	Multi Control Devices	
-	Damp heat	60±2℃, 90 to 5	TACT Switch™ Custom-	
				Custom-

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(μA) 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	80	15	3	2.7 max.	10 max.	590 TYP	30 TYP	0.4min. 1.0 TYP
Orange (High brightness)					2.0 TYP	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

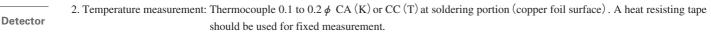
Products

Soldering Conditions

Condition for Reflow

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

1. Heating method: Double heating method with infrared heater.



Push 3. Temperature profile

Slide

Rotarv

Encoders

Power

Dual-in-line

Package Type Multi Control

Devices

TACT Switch[®]

Products

Temperature (°C) 180 150 120 sec max. (pre-heating) 3 to 4min. Time inside soldering equipment

Note

- 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 Soft 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)

ltems	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 (Except SKRT series)

ltems	Condition
Soldering temperature	350°C max.
Continuous soldering time	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 at least 0.81.
- (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.

Box Size $\overline{0}$ С B Unit:mm Series Α В С SKHV SKQC SKOK 47 331 291 SKRS SKPD SKQN SKRGAL to AS 48 235 SKRGAA to AF 334 43 SKPL 340 SKRC 55 337 370

Quantity Accommodated Per Box					
Series	Qty/reel (pcs.) (Minimum packing unit)				
SKHV SKQK	1,000				
SKRS	700				
SKQC	1,500				
SKPD	800				
SKRG	2,000				
SKQN SKRC	900				
SKPL	2,700				

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