6.2×6.5mm TACT Switch (SMD)

SKHU Series

Wide varieties such dust protection type suitable for high density mounting.

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

- 6.2×6.5mm dimension with 2.5 ~ 3.1mm height is suitable for high density mounting.
- Reflow solderable.
- Available with anti-ESD ground terminal.
- Packaged with a 12mm wide embossed taping.
- Dust protection type is available to have advantage in dusty environment.

Applications

 For operating various electronic devices such as audio devices, office equipment, communication devices, measuring instruments, 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.
SKHUABE010	0.98N			50mA 12V DC	300.000cvcles	100m Ω max.	Green	h=2.5mm	
SKHUADE010	1.57N	Vertical	0.25		300,000cycles		Brown		1
SKHUAFE010	2.55N				100,000cycles		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.
SKHUPBE010	0.98N			50mA 12V DC	200 000		Green		
SKHUPDE010	1.57N	Vertical	0.25		300,000cycles	100m Ω max.	Brown	h=2.5mm	2
SKHUPFE010	2.55N				100,000cycles		Red	1	

Dust-proof 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.
SKHUBBE010	1.57N	Vertical	0.25	50mA 12V DC	50,000cycles	100m Ω max.	Brown	h=3.1mm	3

Dust-proof and 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.
SKHUQBE010	1.57N	Vartical	ertical 0.25	50mA	50,000cycles	100m Ω max.	Brown	h=3.1mm	4
SKHUQEE010	2.55N	vertical	0.25	12V DC			Red		4

Dimensions Unit: mm

וט	mensions		Unit : mm
No.	Style		PC board land dimensions (Viewed from switch mounting face)
1	Vertical type 7.2 6.2 9 9 Stem	5.8	0.5
2	With ground terminal type 7.2 6.2 Stem	5.8	9.5 4 Ground terminal land
3	Dust-proof type 7.2 6.2 Stem 4 Stem 4	5.8	20 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
4	Dust-proof and with ground terminal type	288	9.5 Ground terminal land

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Dual-in-line Package Type Multi Control

Devices

TACT

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

Circuit Diagram

Oncuit Diagram	T
Vertical type	With ground terminal type
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For detailed specifications, see P.413 For soldering conditions, see P.414

For specifications for the taping package, see ${\bf P.416}$

Products Specifications

Items	Series	Sharp feeling type	Soft feeling type			
		-20°C to +70°C				
Operati	ng temperature range	-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	100M Ω SKEY/PD : 50M Ω				
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°C 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	40	40 80 15		4	2.7 max.	5 max.	700 TYP	100 TYP	0.4min. 1.0 TYP
Pure green			15		2.05TYP	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	10 IIIax.	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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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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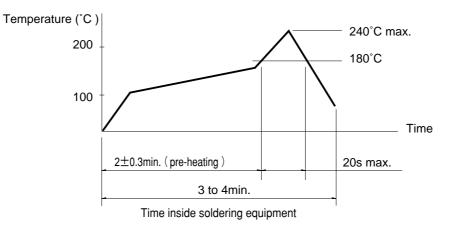
Jog Shuttle

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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Feeling
Soft
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Type

Specification of Embossed Taping Package

■ Taping Packaging for Auto-insertion

Reel Size Unit : mm

Paper Reel	Applicable Series	W
(3)	SKHM, SKHU, SKQG SKQL, SKQM, SKQR SKQY, SKRB, SKRE SKRAAA, SKRAAB	12.4
ø380 W	SKQT, SKRH SKRAAC, SKRAAF SKPG, SKPN	16.4
	SKQUBA, SKQUDB	32.4

Plastic Reel	Applicable Series	W
	SKRK, SKRM SKRN, SKRP SKRT, SKPM SKRW	13.5
ø360 W	SKRR	17.5

Unit: mm

Unit: mm

Applicable series	Oty / reel (pcs.) (Minimum packing unit)	Tape dimensions
SKQM, SKPMAM SKPMAN, SKPMAP SKPMAQ	2,000	
SKPMAR, SKPMAS SKPMAT	2,500	Pull direction
SKHM, SKHU SKQY, SKRT SKRAAA, SKRAAB	3,000	2 4 4 01.5 hole
SKQG	5,000 (Without stem type) 4,000 (With stem type)	(6.5.5)
SKRP	4,000	
SKRKAE, SKRKAH	4,500	8 -
SKQR, SKRB SKRM, SKRW	10,000	,
SKRE, SKRN, SKRKAG	5,000	
SKQL	3,000	2 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
SKPG	1,200	2 *12 4
SKRH	1,300	#Excluding SKQT (i.e.8)
SKRAAC, SKRAAF	1,400	
SKQT	3,000	- (· · · · · · · · · · · · · · · · · ·
SKRR	7,000	
SKPN	1,100	Pull direction
SKQUBA	750	40 40 40 40 40 40 40 40 40 40
SKQUDB	600	40 Pull direction

Note

Consult with us for a ϕ 330 mm diameter reel.