TACT Switch™ 4.5mm Square Compact (Snap-in Type)

SKHR Series



Compact snap-in type contribute to improve high density mounting.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**

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Product Line

1 Todact Line									
Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Minimum order unit (pcs.)
SKHRAAA010	0.98N					50,000cycles		Black	
SKHRABA010	1.57N	Vertical	0.25	50mA 12V DC	10 <i>μ</i> A 1V DC	30 00000000		Dark gray	1,000
SKHRAHA010	2.55N					50,000cycles		Red	

Packing Specifications

Bulk

Number of pa	Export package measurements			
1 case /Japan	1 case /export packing	(mm)		
20,000	60,000	309×476×347		

Feeling

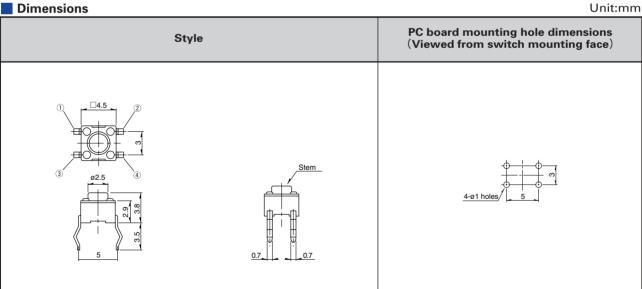
Snap-in Type

Sharp Feeling Soft

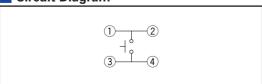
Surface

Mount Type

Radial Type



Circuit Diagram



Note

- 1. Please use 1.6mm thick PC boards.
- 2. Please place purchase orders per minimum order unit N (integer).

List of Varieties

■ Sharp Feeling Type

Series	Sharp Feeling Type													
Type	Series		SKHR	SKHL	SKHH	SKHW	SKRD	SKQJ	SKHL	SKHH	SKQJ	SKHJ	SKQB	
Peatures	Photo						23							
Vertical		Туре							Snap-in					
M		eature	S					_	Horizontal type					
W	dire Ver		tical	•	•	•	•	_	•	_			•	•
Dimensions (mm)	ating ction	Horiz	ontal		_	_		•	_	• • • —			_	
Dimensions (mm)			w	□4.5	6		∃ 6	6.2		7.3	7	.5	□g	□10
Operation force coverage 5N			ne			7.15	0.0	7.22	7.85					
Coverage SN Coverage SN Coverage SN Coverage SN Coverage			Н	3.8		4.3		7.4	5	4.3	7.4	7.3	8.5	5
Coperating temperature range Topic Topi	Operation force			\uparrow	1		1	‡	‡	1	1	1	1	‡
Operating temperature range SKHJ/HL(Vertical Type) /QJ														
Tange -30°C to +85°C					-20°C to +70°C SKHJ/HL(Vertical Type) /QJ									
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 2hours respectively Lifetime Shall be in accordance with individual specifications. Cold -30±2°C for 96h Dry heat 80±2°C for 96h Damp heat 60±2°C, 90 to 95%RH for 96h			ure	-30°C to +85°C										
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 2hours respectively Lifetime Shall be in accordance with individual specifications. Cold -30±2°C for 96h Dry heat 80±2°C for 96h Damp heat 60±2°C, 90 to 95%RH for 96h	Elect	Insulation resistance 100M Ω min. 100V DC												
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 2hours respectively Lifetime Shall be in accordance with individual specifications. Cold -30±2°C for 96h Dry heat 80±2°C for 96h Damp heat 60±2°C, 90 to 95%RH for 96h	trical mance	Volt pro	age oof	250V AC for 1min.										
Cold −30±2°C for 96h								es,						
	bility	Lifet	ime	Shall be in accordance with individual specifications.										
	Envi	Co	old	-30±2°C for 96h										
	ronme	Dry	heat	80±2℃ for 96h										
Page 275 276 278 282 283 284 276 278 284 286 288	ntal	Damp heat 60±2℃, 90 to 95%RH for 96h												
		Page		275	276	278	282	283	284	276	278	284	286	288

W: Width. The most outer dimension excluding terminal portion.

D : Depth. The most outer dimension excluding terminal portion.

H : Height. The minimum dimension if there are variances.

Note

The automotive operating temperature range to be individually discussed upon request.

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Package Type TACT Switch™

Custom-**Products**

Sharp Feeling Soft **Feeling** Snap-in Type

Surface Mount Type

Radial Type

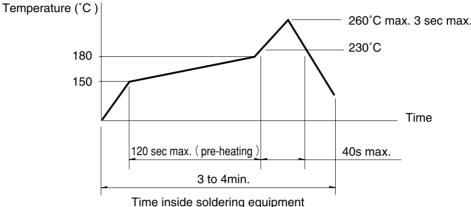
Soldering Conditions

Condition for Reflow

Available for Surface Mount Type.

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 0.1 to 0.2 \(\phi \) CA (K) or CC (T) at solder joints (copper foil surface). A heat resistive tape should be used to fix thermocouple.

3. Temperature profile



Notes

- 1. The above temperature shall be measured of the top of switch. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the material, size, thickness of PC boards and others. The above-stated conditions shall also apply to switch surface temperatures.
- 2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

Conditions for Auto-dip

Available for Snap-in Type and Radial Type

(Except SKHJ, SKHL, SKQJ, SKQK, SKEG series)

Items	Condition
Flux built-up	Mounting surface should not be exposed to fluk
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100℃ max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

Manual Soldering (Except SKRT Series)

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

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

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Custom-

Products

- 1. Consult with us for availability of TACT Switch™ washing.
- 2. Prevent flux penetration from the top side of the TACT \widetilde{Switch}^{TM} .
- 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 is stable with normal temperature.
- 5. Use the flux with a specific gravity of min 0.81. (EC-19S-8 by TAMURA Corporation, or equivalents.)