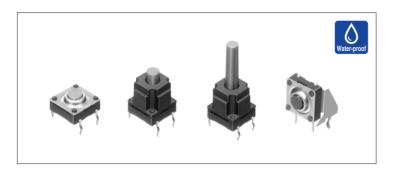
TACT Switch™

10mm Square Water-proof (Snap-in Type)

SKQB Series



Excellent water-proof and dust-proof structure suitable for home appliances used around water.



Product Line

Vertical Type

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Minimum order unit (pcs.)	Drawing No.
SKQBARA010	1.57N		Vertical 0.3		10 <i>μ</i> A 1V DC	100,000cycles	500mΩ max.	Dark gray	- 5mm	1,000	1
SKQBASA010	2.55N							Red			
SKQBAPA010	1.57N	Vantiaal (Dark gray	- 13mm		
SKQBAJA010	2.55N	Vertical						Red		1,000	2
SKQBAQA010	1.57N							Dark gray			2
SKQBAMA010	2.55N							Red			

Horizontal Type

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.)	Drawing No.
SKQBLBA010	1.57N	Horizontal	0.3	50mA 12V DC	10 <i>μ</i> A 1V DC	100,000cycles	500m Ω max.	Dark gray	1,000	3

Packing Specifications

Bulk

Series	Number of pa	Export package measurements			
Series	1 case /Japan	1 case /export packing	(mm)		
Other	4,000	12,000	309×476×347		
SKQBAQ,SKQBAM	2,000	6,000	309×4/6×34/		

Notes

- 1. When the switch is used in an environment subject to high humidity or condensation, make sure the terminals are coated thoroughly to prevent current leakage between terminals.
- 2. Avoid using coating material containing toluene or xylene. For more information on coating material, please contact us.
- 3. Please place purchase orders per minimum order unit N (integer).

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-Products

Sharp Feeling

Soft Feeling

Snap-in Type

Type

Surface Mount Type Radial



Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line

Package Type

TACT Switch™

Custom-Products

Sharp Feeling Soft Feeling Snap-in Type

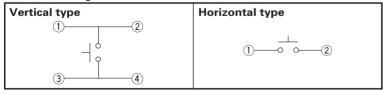
Surface Mount Type Radial Type ■ Dimensions Unit:mm

PC board mounting hole dimensions No. Photo Style (Viewed from switch mounting face) Vertical type Stem height: 5mm 1 Vertical type h Α 13 3.8 23.2 3.5 0.7_ Horizontal type 3

Note

Please use 1.6mm thick PC boards.

Circuit Diagram



■ Water Resisting Performance

Model	SKQBAP/SKQBAJ/SKQBAQ/ SKQBAM/SKQBAR/SKQBAS	SKQBLB
Temperature of water	60℃	60℃
Depth of water	10cm	10cm
Immersion duration	240h	1h

Note

Switch terminals must be coated thoroughly until the terminals are all hidden.

List of Varieties

Sharp Feeling Type

Series	0110	Snarp Feeling Type													
Type		Series		SKHR	SKHL	SKHH	SKHW	SKRD	SKQJ	SKHL	SKHH	SKQJ	SKHJ	SKQB	
Peatures	Photo						23								
Vertical	Туре							Snap-in							
M	Features			_				_	Но	Horizontal type					
W	Oper	dire Vert		•	•	•	•	_	•	_			•	•	
Dimensions (mm)	ating ction	Horiz	ontal		_	_		•	_	•	• • •			_	
Dimensions (mm)			w	□4.5	6		∃ 6	6.2	□6.6	7.3	7			□10	
Operation force coverage 5N			D	4.5	3.5			7.15	□6.6	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	Grou	nd terr		_ •				_							
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			100MΩ 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	Voltage proof		250V AC for 1min.											
Cold −30±2°C for 96h		Vibra	ation		10	to 55 to in t	10Hz/min he 3 direc	., the amplitude is 1.5mm for all the frequencies, tion of X, Y and Z for 2hours respectively							
	bility	Lifet	ime			Sh	all be in a	ccordance with individual specifications.							
	Environme performa	Co	old					-30±2℃ for 96h							
		Dry	heat					80±2℃ for 96h							
Page 275 276 278 282 283 284 276 278 284 286 288	Damp hea		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.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line

Package Type TACT Switch™

Custom-**Products**

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

Surface Mount Type

Radial Type

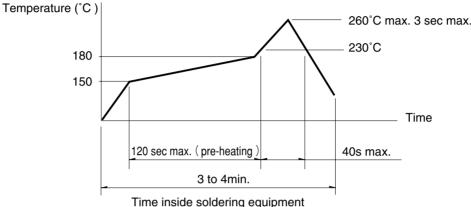
Soldering Conditions

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

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

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.)