

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



TACT Switch™

Sharp Feeling

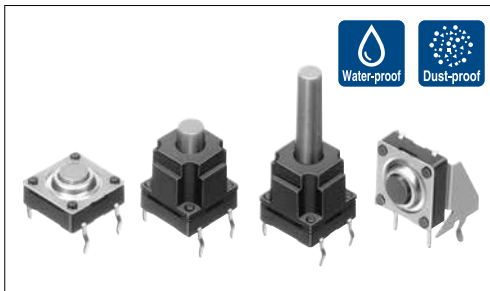
Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

### Typical Specifications



Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10 $\mu$ A 1V DC
Initial contact resistance	500m $\Omega$ max.
Travel (mm)	0.3

### Product Line

Top push type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Height	Minimum order unit (pcs.)		Drawing No.
						Japan	Export	
<b>SKQBARA010</b>	1.57N	Top push	100,000 cycles	Dark gray	5mm	1,000	1,000	1
<b>SKQBASA010</b>	2.55N			Red				
<b>SKQBAPA010</b>	1.57N			Dark gray	13mm			2
<b>SKQBAJA010</b>	2.55N			Red				
<b>SKQBAQA010</b>	1.57N			Dark gray	23.2mm			
<b>SKQBAMA010</b>	2.55N			Red				

Side push type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Minimum order unit (pcs.)		Drawing No.
					Japan	Export	
<b>SKQBLBA010</b>	1.57N	Side push	100,000 cycles	Dark gray	1,000	1,000	3

### Packing Specifications

Bulk

Series	Number of packages (pcs.)		Export package measurements (mm)
	1 case / Japan	1 case / export packing	
<b>Other</b>	4,000	12,000	309×476×347
<b>SKQBAQ, SKQBAM</b>	2,000	6,000	

### Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1	<p>Top push type Height : 5mm</p>		

Refer to P.249 for soldering conditions.

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

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## ■ Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)						
2		<table border="1" style="margin-left: 20px;"> <tr> <td>h</td> <td>A</td> </tr> <tr> <td>13</td> <td>3.8</td> </tr> <tr> <td>23.2</td> <td>3.5</td> </tr> </table>	h	A	13	3.8	23.2	3.5	
h	A								
13	3.8								
23.2	3.5								
3									

## Note

Please use 1.6mm thick PC boards.

## ■ Circuit Diagram















Top push type	Side push type

## ■ Water Resisting Performance

	SKQBAP, SKQBAJ, SKQBAQ, SKQBAM, SKQBAR, SKQBAS	SKQBLB
Temperature of water	60°C	60°C
Depth of water	10cm	10cm
Immersion duration	240h	1h

## Notes

1. Be sure to apply a coating over the terminals after attaching the switch for waterproof efficiency.
2. Avoid using coating material containing toluene or xylene. For more information on coating material, please contact us.

Type		Sharp Feeling Type							
		Snap-in							
Series		SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC	
Photo									
Features		—	—	—	—	—	Long-life	—	
Water-proof		—	—	—	—	●	—	—	
Dust-proof		—	—	●	●	●	●	—	
IP standard		—	—	—	—	—	—	—	
Operating direction	Top push	●	●	●	●	●	●	●	
	Side push	—	—	—	—	—	—	—	
Dimensions (mm)	W	6	□6		□6.6	□10	□12		
	D	3.5							
	H	4.3/5	See the relevant pages for respective product descriptions		4.3/5	5	5/13/23.2	See the relevant pages for respective product descriptions	
Operation force coverage	1N max.	↕	↕	↕	↕	↕	↕	↕	
	1N to 2N								
	2N to 3N								
	3N to 4N								
	4N to 5N								
Travel (mm)		0.25		0.3	0.25	0.3			
Ground terminal		—	●	—	—	—	—	—	
Operating temperature range		-40°C to +90°C			-20°C to +70°C		-40°C to +90°C		-40°C to +85°C
Automotive use		●	●	—	—	●	—	—	
Life Cycle									
Electrical performance	Rating (max.) (Resistive load)	50mA 12V DC							
	Rating (min.) (Resistive load)	10μA 1V DC							
	Insulation resistance	100MΩ min. 100V DC 1min.							
	Voltage proof	250V AC 1min.							
Durability	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							
	Lifetime	Shall be in accordance with individual specifications.							
Environmental performance	Cold	-40°C 96h			-30°C 96h	-40°C 96h			
	Dry heat	90°C 96h			80°C 96h	90°C 96h			
	Damp heat	60°C, 90 to 95%RH 96h				60°C, 90 to 95%RH 1,000h	60°C, 90 to 95%RH 96h		
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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.

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### Notes

- The automotive operating temperature range to be individually discussed upon request.
- Indicates applicability to all products in the series.

TACT Switch™











Sharp Feeling Type

Soft Feeling Type

Snap-in Type

Surface Mount Type

Radial Type

Type		Sharp Feeling Type				
		Snap-in				Radial
Series		SKHL	SKHH	SKQJ	SKQB	SKRC
Photo						
Features		—	—	—	—	Round terminal type
Water-proof		—	—	—	●	●
Dust-proof		—	—	●	●	●
IP standard		—	—	—	—	—
Operating direction	Top push	—	—	—	—	●
	Side push	●	●	●	●	—
Dimensions (mm)	W	7.3	7.5	7.5	11.5	φ9
	D	7.22	7.85	7.85	11.9	
	H	4.3	7.4	7.3	11.3	
Operation force coverage	1N max.	↕	↕	↕	↕	↕
	1N to 2N					
	2N to 3N					
	3N to 4N					
	4N to 5N					
Travel (mm)		0.25			0.3	0.25
Ground terminal		●	●	—	—	—
Operating temperature range		-40°C to +90°C		-20°C to +70°C	-40°C to +95°C	-30°C to +85°C
Automotive use		●	●	—	●	—
Life Cycle						
Electrical performance	Rating (max.) (Resistive load)	50mA 12V DC				
	Rating (min.) (Resistive load)	10μA 1V DC				
	Insulation resistance	100MΩ min. 100V DC 1min.				
	Voltage proof	250V AC 1min.				
Durability	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				
	Lifetime	Shall be in accordance with individual specifications.				
Environmental performance	Cold	-40°C 96h		-30°C 96h	-40°C 96h	
	Dry heat	90°C 96h		80°C 96h	90°C 96h	
	Damp heat	60°C, 90 to 95%RH 96h			60°C, 90 to 95%RH 1,000h	
Page		186	188	193	195	242

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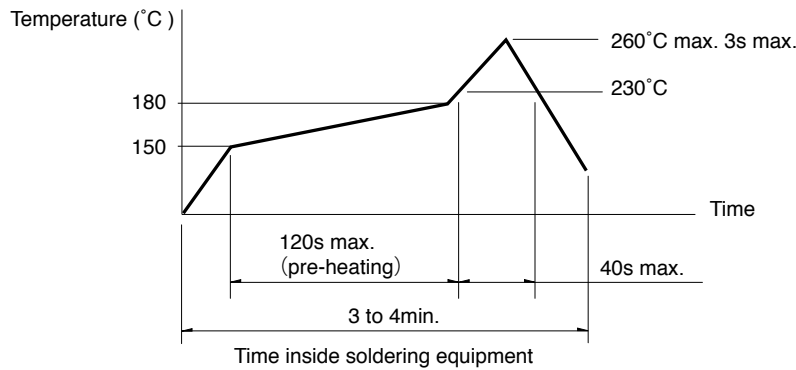
### Notes

- The automotive operating temperature range to be individually discussed upon request.
- Indicates applicability to all products in the series.

## Condition for Reflow

Available for Surface Mount Type.

Temperature profile



### Notes

1. Please confirm the specifications of our product for the detailed condition.
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.

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

### SKHH Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 110°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

### SKHL Top Push Type, SKQJ Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	45s max.
Soldering temperature	255°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

### Notes

1. Prevent flux penetration from the top side of the TACT Switch™.
2. Switch terminals and a PC board should not be coated with flux prior to soldering.
3. The second soldering should be done after the switch is stable with normal temperature.
4. Use the flux with a specific gravity of min 0.81.  
(EC-19S-8 by TAMURA CORPORATION, or equivalents.)

## Manual Soldering

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

### SKHH, SKHW Series

Items	Condition
Soldering temperature	360°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

### SKTD, SKTG, SKQJ Series

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	20W max.

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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А