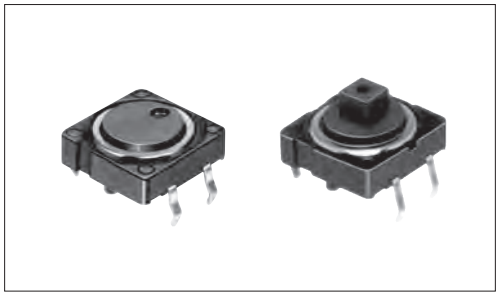
SKHC 12mm Square (Snap-in Type)

Joint stem & flat stem with stable operation feeling



Typical Specifications

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10μA 1V DC
Initial contact resistance	100mΩ max.
Travel (mm)	0.3

Product Line

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Stem	Minimum order unit (pcs.)		Drawing No.
						Japan	Export	
SKHCBJA010	0.74N	Top push	500,000 cycles	Blue	Joint stem	1,000	1,000	1
SKHCBEA010	1.27N		1,000,000 cycles	Black				
SKHCBGA010	2.55N		500,000 cycles	Dark gray				
SKHCBKA010	0.74N			Blue	Flat stem			2
SKHCBFA010	1.27N		1,000,000 cycles	Black				
SKHCBHA010	2.55N		500,000 cycles	Dark gray				

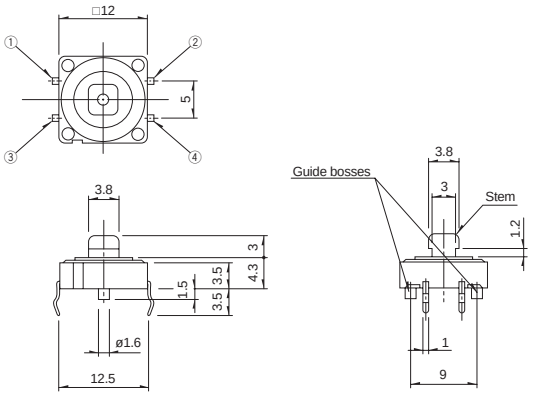
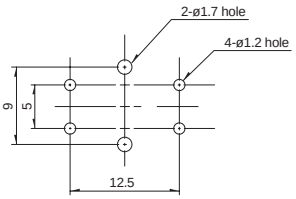
Packing Specifications

Bulk

Number of packages (pcs.)		Export package measurements (mm)
1 case / Japan	1 case / export packing	
5,000	15,000	309×476×347

Dimensions

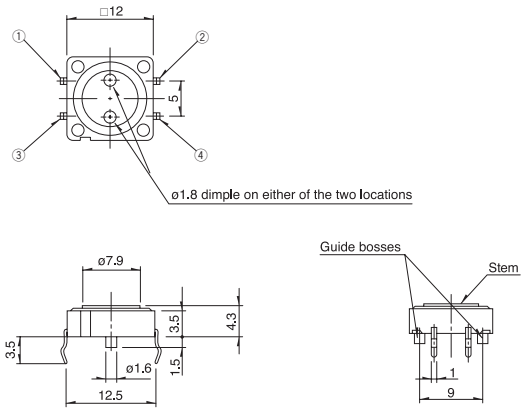
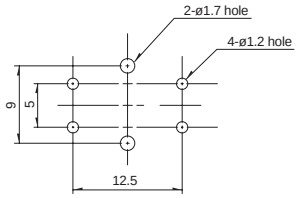
Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1	Joint stem type 		

Refer to P.235 for soldering conditions.

Dimensions

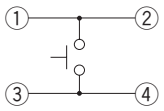
Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
2	Flat stem type 		

Note

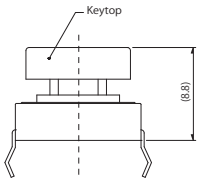
Please use 1.6mm thick PC boards.

Circuit Diagram

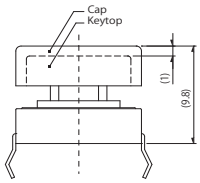


Height with Keytop/Cap

With keytop only

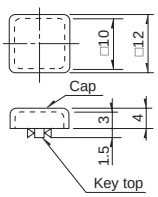
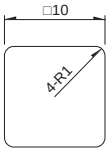


With keytop and cap



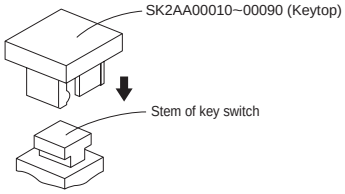
Keytop/Cap Lineup

Unit:mm

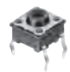
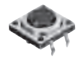
Applicable model	Dimensions		Variety: Color	Variety: Model (Cap)	Variety: Model (Keytop)	Variety: Model (Keytop + Cap)	Label dimensions
SKHC Applicable to joint stem type			**Clear**	**SK2AA00510**			 Thickness 0.1
			Red **Blue** **Ivory** **Black**		**SK2AA00010** **SK2AA00020** **SK2AA00030** **SK2AA00040**	**SK2AA00060** **SK2AA00070** **SK2AA00080** **SK2AA00090**	

Notes

1. Keytops and caps are not attached to switches on delivery.
2. The label is not included.
3. For SK2AA00010 to SK2AA00090 types, please check the mounting direction.



List of Varieties

Type		Sharp Feeling Type						
		Snap-in						
Series		**SKHL**	**SKHH**	**SKHW**	**SKQJ**	**SKQB**	**SKQE**	**SKHC**
Photo								
Features		—	—	—	—	—	Long-life	—
Water-proof		—	—	—	—	●	—	—
Dustproof		—	—	●	●	●	●	—
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℃ to +90℃			−20℃ to +70℃	−40℃ to +90℃		−40℃ to +85℃
Automotive use		●	●	—	—	●	—	—
Life Cycle		★2	★3	★2	★2	★2	★2	★2
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℃ 96h			−30℃ 96h	−40℃ 96h		
	Dry heat	90℃ 96h			80℃ 96h	90℃ 96h		
	Damp heat	60℃, 90 to 95%RH 96h				60℃, 90 to 95%RH 1,000h	60℃, 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.

TACT Switch™ Soldering Conditions · · · · · · · · · · · · · · · · 235
TACT Switch™ Cautions · 236

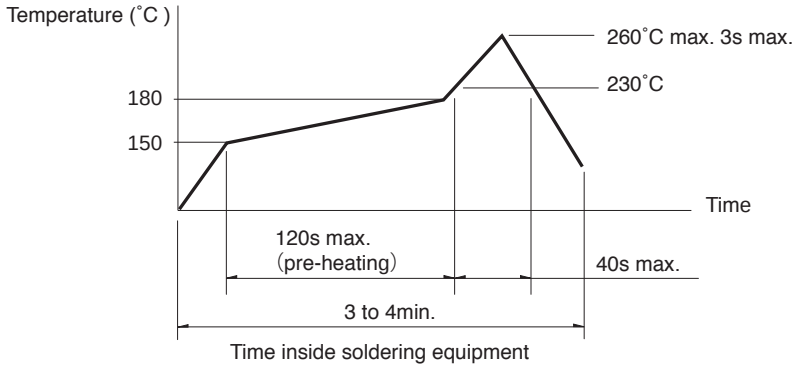
Notes

1. The automotive operating temperature range to be individually discussed upon request.
2. ● Indicates applicability to all products in the series, while ○ indicates applicability to some 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℃ max.
Preheating time	60s max.
Soldering temperature	260℃ 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℃ max.
Preheating time	60s max.
Soldering temperature	260℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKHLTop 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℃ max.
Preheating time	45s max.
Soldering temperature	255℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

Manual Soldering

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

SKHH, SKHW Series

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

SKTD, SKTG, SKQJ, SKSN Series

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