Joint stem & flat stem with stable operation feeling





Typical Specifications

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

■ Product Line

Product No.	Operating force	Operating direction	Operating life	Stem color	Stem	Minimum order unit (pcs.)		Drawing
T TOUGET NO.	Operating force	Operating direction	(5mA 5V DC)	Sterri color	Otelli	Japan	Export	No.
SKHCBJA010	0.74N	Top push	500,000 cycles	Blue				
SKHCBEA010	1.27N		1,000,000 cycles	Black	Joint stem	1.000	1.000	1
SKHCBGA010	2.55N		500.000 cycles	Dark gray				
SKHCBKA010	0.74N		300,000 Cycles	Blue		1,000	1,000	
SKHCBFA010	1.27N		1,000,000 cycles	Black	Flat stem			2
SKHCBHA010	2.55N		500,000 cycles	Dark gray				

■ Packing Specifications

Bulk

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

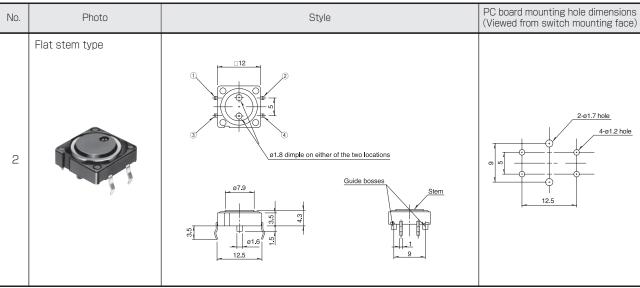
Dimensions

Unit:m

	111611616116		Unit:mm
No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1	Joint stem type	Guide bosses 3.8 Guide bosses 3.8 On the state of the	2-ø1.7 hole 4-ø1.2 hole



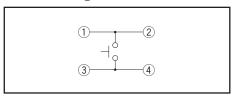
Dimensions



Note

Please use 1.6mm thick PC boards.

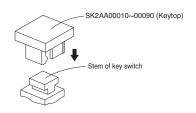
■ Circuit Diagram



■ Product Line of Knobs

Unit:mm Variety Applicable model Dimensions Label dimensions Color Model Cap SK2AA00510 Clear □10 Keytop Keytop + Cap N.P. SKHC Red SK2AA00010 SK2AA00060 SK2AA00020 SK2AA00030 Blue SK2AA00070 Key top Ivory SK2AA00080 Applicable to joint Black SK2AA00040 SK2AA00090 Thickness 0.1 stem type

- 1. The knob will be delivered together with the switch but packed separately.
- 2. The label is not included.
- 3. For SK2AA00010 to SK2AA00090 types, please check the mounting direction.





5	Type -							
	Series				Snap-in			
F		SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC
	Photo							
Fe	eatures	_	_	_	_	_	Long-life	_
Wa	ater-proof	_	_	_	_	•	_	_
Du	ust-proof	_	_	•	•	•	•	_
IP s	standard	_	_	_	_	_	_	_
Operating	Top push	•	•	•	•	•	•	•
direction	Side push	_	_	_	_	_	_	_
	W	6				-10		110
Dimensions (mm)	D	3.5	- □6		□6.6	□10	L]12
(11111)	Н	4.3/5	See the relevant pages for respective product descriptions	4.3/5	5	5/13/23.2	See the rele	vant pages for duct descriptions
Operation force coverage	1N max. 1N to 2N 2N to 3N 3N to 4N 4N to 5N			1	1	1	1	Ţ
Travel (mm)		0	.25	0.3	0.25		0.3	
Grour	nd terminal	_	•	_	_	_	_	_
Operating temperature range Automotive use			-40℃ to +90℃		-20°C to +70°C	-40°C to	o +90°C	-40℃ to +85℃
		•	•	_	_	•	_	_
Lif	fe Cycle	* 2	*3	*3	* 2	* 2	* 2	*2
	Rating (max.) (Resistive load)				50mA 12V DC			
Electrical	Rating (min.) (Resistive load)	10µA 1V DC						
performance Ins	sulation resistance	100MΩ min. 100V DC 1min.						
	Voltage proof	250V AC 1min.						
Durability	Vibration	10 to 55 to 10Hz/min., the amplitude is 1.9 in the 3 direction of X, Y and Z for				5mm for all the frequencies, 2 hours respectively		
Durability	Lifetime	Shall be in accordance with individ				idual specifications.		
	Cold	-40°C 96h -30°C 96h			-30°C 96h	n −40°C 96h		
Environmental performance	Dry heat	90°C 96h 80°C 96h			80℃ 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		
	Page	195	197	201	202	204	206	208

 $[\]ensuremath{\mathsf{W}}$: Width. The most outer dimension excluding terminal portion.

Notes

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

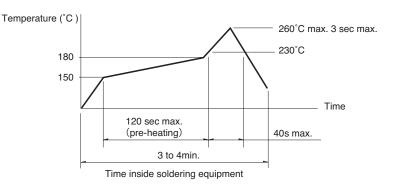
D : Depth. The most outer dimension excluding terminal portion. H : Height. The minimum dimension if there are variances.

TACT Switch™ Soldering Conditions

Condition for Reflow

Available for Surface Mount Type.

- 1. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 CA (K) or CC (T) at solder joints (copper foil surface).
 - A heat resistive tape should be used to fix thermocouple.
- 2. Temperature profile



Notes

- 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.
- 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℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKHH, SKPD 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.

SKQJ, SKQK, SKEG 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℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

Manual Soldering

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

SKHH, SKHW, SKRG, SKPD Series

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

SKTD, SKTG, SKQJ, SKQK, SKEG Series

Items	Condition
Soldering temperature	350°C 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.)

