6mm Square (Snap-in Type)

User friendly 6.0×6.0mm type, available in a wide variety







■ Typical Specifications

Items	Specifications			
Rating (max.)	50mA 12V DC			
Rating (min.)	10μA 1V DC			
Initial contact resistance	100mΩ max.			
Travel (mm)	0.25			

■ Product Line

Top push type

Product No.	Operating	Operating	Operating life	Stem color	Height	Minimum ord	Drawing	
Product No.	force	direction	(5mA 5V DC)	Sterii coloi	Height	Japan	Export	No.
SKHHAJA010	0.98N		1,000,000 cycles	Black				
SKHHALA010	1.57N		500,000 cycles	Dark gray	h=4.3mm			
SKHHAQA010	2.55N		200,000 cycles	Red				
SKHHAKA010	0.98N		1,000,000 cycles	Black				
SKHHAMA010	1.57N		500,000 cycles	Dark gray				
SKHHARA010	2.55N			Red	h=5mm			
SKHHCQA010	3.53N		200,000 cycles Orange					
SKHHCRA010	5.10N			Yellow		1,000 h=7mm	1,000 1	1
SKHHBVA010	0.98N		1,000,000 cycles	Black				
SKHHBWA010	1.57N	Top push	500,000 cycles	Dark gray	h=7mm			
SKHHBYA010	2.55N		200,000 cycles	Red				
SKHHANA010	0.98N		1,000,000 cycles	Black				
SKHHAPA010	1.57N		500,000 cycles	Dark gray	h=9.5mm			
SKHHBSA010	2.55N		200,000 cycles	Red				
SKHHDTA010	0.98N		1,000,000 cycles	Black				
SKHHDUA010	1.57N		500 000 and	Dark gray	h=13mm			
SKHHDHA010	0.98N		500,000 cycles	Black				
SKHHDJA010	1.57N		300,000 cycles	Dark gray	h=17mm			

Joint stem type

Product No.	Operating	Operating	Operating life	Ctom color	Lloight .	Minimum ord	Drawing	
Product No.	force	direction	(5mA 5V DC)	Sterri color	Stem color Height		Export	No.
SKHHCWA010	0.98N		1,000,000 cycles	Black				
SKHHDAA010	1.57N	Top push	500,000 cycles	Dark gray	h=7.3mm	1,000	1,000	2
SKHHDGA010	2.55N		200,000 cycles	Red				

■ Product Line

With ground terminal type

Product No.	Operating	Operating	Operating life	Stem color	Height	Minimum ord	Drawing	
1 100001110.	force	direction	(5mA 5V DC)	0.0111 00101	Tioignt	Japan	Export	No.
SKHHPJA010	0.98N		1,000,000 cycles	Black				
SKHHPLA010	1.57N		500,000 cycles	Dark gray	h=4.3mm			
SKHHPQA010	2.55N		200,000 cycles	Red				
SKHHPKA010	0.98N		1,000,000 cycles	Black				
SKHHPMA010	1.57N		500,000 cycles	Dark gray	h=5mm	- 1,000	1,000	000 3
SKHHPRA010	2.55N	Top push	200,000 cycles	Red				
SKHHQVA010	0.98N	Top pasir	1,000,000 cycles	Black				
SKHHQWA010	1.57N		500,000 cycles	Dark gray	h=7mm			
SKHHQYA010	2.55N		200,000 cycles	Red				
SKHHPNA010	0.98N		1,000,000 cycles	Black				
SKHHPPA010	1.57N		500,000 cycles	Dark gray	h=9.5mm			
SKHHQNA010	2.55N		200,000 cycles	Red				

Side push type

Product No.	Operating	Operating	Operating life	Stem color	Ctom longth	Minimum ord	er unit (pcs.)	Drawing
Product No.	force	direction	(5mA 5V DC)	Stem color	Stem length	Japan	Export	No.
SKHHLMA010	0.98N		1,000,000 cycles	Black				
SKHHLNA010	1.57N		500,000 cycles	Dark gray	ℓ=3.85mm			
SKHHLPA010	2.55N		200,000 cycles	Red				
SKHHLQA010	0.98N		1,000,000 cycles	Black			1.000	4
SKHHLRA010	1.57N		500,000 cycles	Dark gray	ℓ=8.35mm	- 1,000		
SKHHLSA010	2.55N	Side push	200,000 cycles	Red				
SKHHLUA010	0.98N	Olde pusiti	1,000,000 cycles	Black				
SKHHLVA010	1.57N		500,000 cycles	Dark gray	ℓ=5.85mm			
SKHHLWA010	2.55N		200,000 cycles	Red				
SKHHNHA010	0.98N		500,000 cycles	Black				
SKHHNJA010	1.57N		300,000 cycles	Dark gray	ℓ=15.85mm			
SKHHNKA010	2.55N		200,000 cycles	Red				

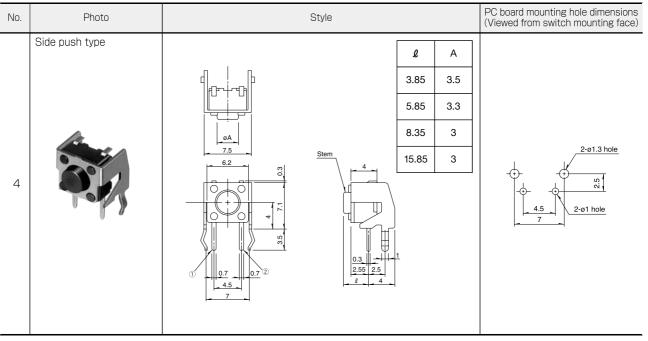
Packing Specifications

Bulk

Product No.	Number of pa	ckages (pcs.)	Export package	
	1 case /Japan	1 case /export packing	measurements (mm)	
Other	10,000	30,000		
SKHHDT, SKHHDU SKHHDH, SKHHDJ SKHHNH, SKHHNJ SKHHNK	5,000	15,000	309×476×347	

■ Di	mensions			Unit:mm
No.	Photo		Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1	Top push type	© 6.5 © 6.5	h A 4.3 3.5 5 3.5 7 3.3 9.5 3 13 3 17 3	4-ø1 hole 6.5
2	Joint stem type	3 2 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.7 0.7	4-ø1 hole 6.5
3	With ground terminal type	3 OA GE	h A 4.3 3.5 5 3.5 7 3.3 9.5 3	5-ø1 hole Ground terminal hole

■ Dimensions



Note

Please use 1.6mm thick PC boards.

■ Circuit Diagram

Top push type / Joint stem type	With ground terminal type	Side push type
①	①	①──○

Product Line of Knobs

Product Line of Kr		Unit:mm			
Applicable model	٦	imensions			Variety
Applicable Houel	L	IIII EI ISIUI IS	Color	Model	
					Keytop
SKHH Applicable to joint		2.8		Red Blue Ivory Black Yellow	SK2AA00410 SK2AA00420 SK2AA00430 SK2AA00440 SK2AA00450
stem type		;			

Note

The knob will be delivered together with the switch but packed separately.

	Туре				Sharp Feeling Typ	е		
	Турс		1		Snap-in			
	Series	SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC
	Photo							
	Features	_	_	_	_	_	Long-life	_
	Water-proof	_	_	_	_	•	_	_
	Dust-proof	_	_	•	•	•	•	_
	IP standard	_	_	_	_	_	_	_
Operati	Top push	•	•	•	•	•	•	•
direction		_	_	_	_	_	_	_
	W	6			□6.6	□10]12
Dimensi (mm)		3.5						الد
, ,	Н	4.3/5	See the relevant pages for respective product descriptions	4.3/5	5	5/13/23.2	See the rele respective pro	evant pages for duct descriptions
Operati force coverag	2N to 3N			1	Ţ	Ţ.	1	
	Travel (mm)	0.25 0.3			0.25	0.3		
G	Ground terminal	_	•	_	_	_	_	_
Operatir	ng temperature range	-40°C to +90°C		;	-20℃ to +70℃	-40°C to +90°C		-40℃ to +85℃
Д	automotive use	•	•	_	_	•	_	_
	Life Cycle	* 2	*3	*3	* 2	*2	* 2	* 2
	Rating (max.) (Resistive load)				50mA 12V DC			
Electrical	Rating (min.) (Resistive load)				10μΑ 1V DC			
performance	Insulation resistance			100	MΩ min. 100V DC	1min.		
	Voltage proof				250V AC 1min.			
Durahilitu	Vibration		10 to 55 t in t	to 10Hz/min., tl the 3 direction	ne amplitude is 1.5 of X, Y and Z for 2	mm for all the fre hours respective	equencies, ely	
Durability	Lifetime		S	shall be in acco	dance with individ	ual specifications	S.	
	Cold		-40°C 96h		-30°C 96h		-40°C 96h	
Environmental performance	Dry heat		90°C 96h		80°C 96h		90℃ 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	186	188	192	193	195	197	199
	rage	180	188	192		195		

 $\ensuremath{\mathsf{W}}$: 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.

Notes

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

	Type -	Sharp Feeling Type								
	Туре		Sr	nap-in		Radial				
	Series	SKHL	SKHH	SKQJ	SKQB	SKRC				
Photo				1		844				
	Features	_	_	_	_	Round terminal type				
	Water-proof	-	_	_	•	•				
	Dust-proof	_	_	•	•	•				
	IP standard	_	_	_	_	_				
Operatin	Top push	_	_	_	_	•				
direction		•	•	•	•	_				
	W	7.3	7.5	7.5	11.5					
Dimensio (mm)	ons D	7.22	7.85	7.85	11.9	φ 9				
(111111)	Н	4.3	7.4	7.3	11.3	13				
	1N max.	1	↑	1						
Operation										
force coverag	2N to 3N 9 3N to 4N 4N to 5N		J							
	Travel (mm)	0.25			0.3	0.25				
Gı	round terminal	•	•	_	_	_				
Operatin	g temperature range	-40°C to +90°C		−20°C to +70°C	−40°C to +95°C	−30°C to +85°C				
Αι	utomotive use	•	•	_	•	_				
	Life Cycle	2	*2	**	*2	* 2				
	Rating (max.) (Resistive load)			50mA 12V DC						
Electrical	Rating (min.) (Resistive load)			10µA 1V DC						
performance	Insulation resistance		Ţ	OOMΩ min. 100V DC 1m	nin.					
	Voltage proof			250V AC 1min.						
	Vibration			n., the amplitude is 1.5mm ion of X, Y and Z for 2 ho						
Durability	Lifetime		Shall be in ac	ccordance with individual	specifications.					
	Cold	-40°	C 96h	-30°C 96h	-40°C	96h				
Environmental performance	Dry heat	Dry heat 90°C 96h 80°C 96h		90°C	96h					
	Damp heat	(6h	60°C, 90 to 9	5%RH 1,000h				
	Page	186	188	193	195	242				

 $[\]ensuremath{\mathsf{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.

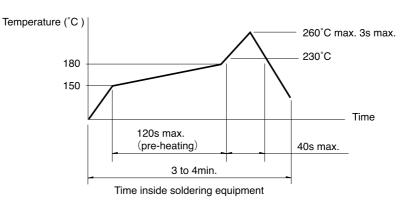
TACT Switch™ Soldering	Conditions	 	 	 249
TACT Switch™ Cautions		 	 	 250

Notes

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

TACT Switch™ / Soldering Conditions

■ 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.

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°C 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°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.

Notes

- 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.)

