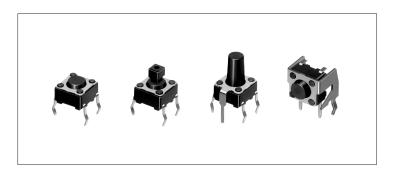
TACT Switch™ 6mm Square (Snap-in Type)

SKHH Series



User friendly 6×6mm type, available in a wide variety.



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.
SKHHAJA010	0.98N					1,000,000cycles		Black			
SKHHALA010	1.57N					500,000cycles		Dark gray	h=4.3mm		
SKHHAQA010	2.55N					200,000cycles		Red			
SKHHAKA010	0.98N					1,000,000cycles		Black			
SKHHAMA010	1.57N	-			10μA 1V DC	500,000cycles		Dark gray			
SKHHARA010	2.55N			25 50mA 12V DC				Red	h=5mm		
SKHHCQA010	3.53N					200,000cycles		Orange			
SKHHCRA010	5.10N							Yellow			
SKHHBVA010	0.98N	Vertical	0.25			1,000,000cycles	100m Ω	Black		1,000	1
SKHHBWA010	1.57N	Vertical	0.25			500,000cycles	max.	Dark gray	h=7mm	1,000	
SKHHBYA010	2.55N					200,000cycles		Red			
SKHHANA010	0.98N					1,000,000cycles		Black			
SKHHAPA010	1.57N					500,000cycles		Dark gray	h=9.5mm		
SKHHBSA010	2.55N					200,000cycles		Red			
SKHHDTA010	0.98N					1,000,000cycles		Black	- h=13mm		
SKHHDUA010	1.57N					500,000cycles		Dark gray			
SKHHDHA010	0.98N					500,000cycles		Black	h=17mm		
SKHHDJA010	1.57N					300,000cycles		Dark gray	17111111		

Joint Ctom Tuno

1	oint Stem 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.
	SKHHCWA010	0.98N					1,000,000 cycles		Black			
	SKHHDAA010	1.57N	Vertical	0.25	50mA 12V DC	10 <i>μ</i> A 1V DC	500,000 cycles	100m Ω max.	Dark gray	h=7.3mm	1,000	2
	SKHHDGA010	2.55N					200,000 cycles		Red			

Note

Please place purchase orders per minimum order unit N (integer).

Refer to P.334 for soldering conditions. Refer to P.336 for standard knobs. 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



6mm Square (Snap-in Type) | SKHH Series

Product Line

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

CustomProducts

Sharp Feeling Soft Feeling Snap-in Type Surface Mount Type Radial Type With Ground Terminal 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.
SKHHPJA010	0.98N					1,000,000 cycles	- - 100mΩ	Black		- 1,000	3
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	h=7mm		
SKHHPMA010	1.57N				10μA 1V DC	500,000 cycles		Dark gray			
SKHHPRA010	2.55N	Vertical	0.25	50mA		200,000 cycles		Red			
SKHHQVA010	0.98N	vertical	0.25	12V DC		1,000,000 cycles	max.	Black			
SKHHQWA010	1.57N					500,000 cycles		Dark gray			
SKHHQYA010	2.55N					200,000 cycles		Red			
SKHHPNA010	0.98N					1,000,000 cycles		Black			
SKHHPPA010	1.57N					500,000 cycles		Dark gray			
SKHHQNA010	2.55N					200,000 cycles		Red			

Horizontal Type

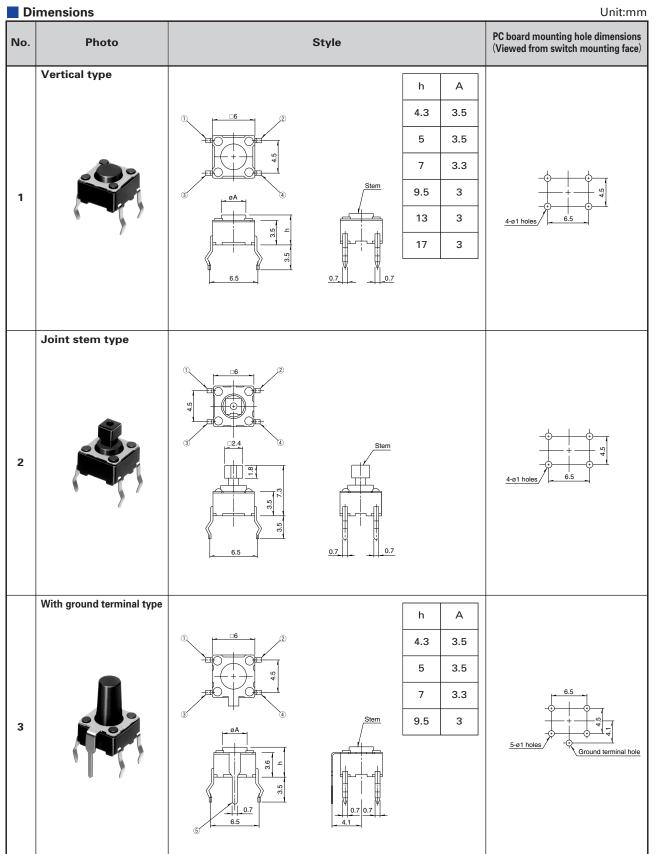
Horizontal Type											
Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem length	Minimum order unit (pcs.)	Drawing No.
SKHHLMA010	0.98N					1,000,000 cycles		Black		-	
SKHHLNA010	1.57N					500,000 cycles	100mΩ	Dark gray	ℓ=3.85mm		
SKHHLPA010	2.55N					200,000 cycles		Red			
SKHHLQA010	0.98N			50mA 12V DC		1,000,000 cycles		Black	ℓ=8.35mm		4
SKHHLRA010	1.57N		0.25			500,000 cycles		Dark gray			
SKHHLSA010	2.55N	Horizontal				200,000 cycles		Red			
SKHHLUA010	0.98N	Tionzontai	0.25			1,000,000 cycles	max.	Black		1,000	
SKHHLVA010	1.57N					500,000 cycles		Dark gray	-	_	
SKHHLWA010	2.55N					200,000 cycles		Red			
SKHHNHA010	0.98N					500,000 cycles		Black			
SKHHNJA010	1.57N					300,000 cycles		Dark gray			
SKHHNKA010	2.55N					200,000 cycles		Red			

Packing Specifications Bulk

	Number of pa	Export		
Series	1 case /Japan	1 case /export packing	package measurements (mm)	
Other	10,000	30,000		
SKHHDT,SKHHDU SKHHDH,SKHHDJ SKHHNH,SKHHNJ SKHHNK	5,000	15,000	309×476×347	

Note

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

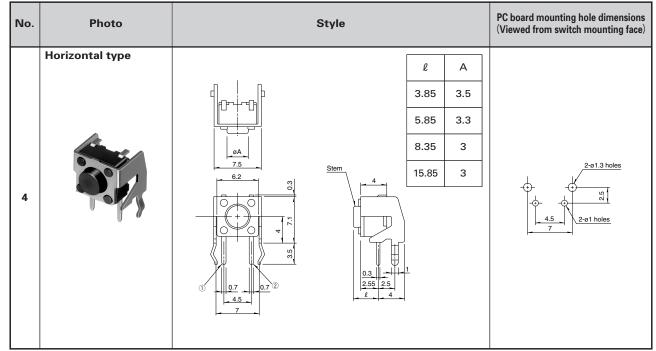
Snap-in Type

Surface Mount Type

Radial Type



■ **Dimensions** Unit:mm



Note

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

CustomProducts

Feeling
Soft
Feeling
Snap-in
Type
Surface
Mount Type
Radial
Type

Please use 1.6mm thick PC boards.

Circuit Diagram

Sharp

Vertical type/Joint

Vertical type/Joint stem type	With ground terminal type	Horizontal type
(1)——(2) (3)——(4)	①——② ③——④ ⑤———	1)—————————————————————————————————————



List of Varieties

Sharp Feeling Type

		anng i	SKHR	CVIII	CVIIII	CVINA	CVDD	SKQJ	CVIII	CKIIII	CKO I	CVOD	CKOII
	Series		SKHR	SKHL	SKHH	SKHW	SKRD	SKQJ	SKHL	SKHH	SKQJ	SKQB	SKQU
Photo							100	%			0		
	Туре			Snap-in									
Features						Dust-proof type	Horizontal type	_	Но	rizontal ty	ype	Water- proof	4-direction switch+push switch
Operating direction	Vert	tical	•	•	•	•	_	•	_		_	•	•
ating tion	Horiz	ontal	_			_	•	_	•	•	•	_	<u> </u>
		w		6		70	6.2		7.3	7.3 7.5 7.22 7.85			140
Dimer (m		D	□4.5	3.5] 6	7.15	□6.6	7.22			_ □10	
		Н	3.8		4.3		7.4	5	4.3	7.4	7.3	5	7.1
Opera for cove	ce	1N 5N	1	1		1	1	1	1	1	1	1	See the relevant pages for respective product
Travel (mm)				0.25 0.3 0.25					1	0.3	descriptions		
Grou	nd tern	ninal	_ • • — • — —								_		
	peratin		−20°C to +70°C SKHL(Vertical Type)/QJ										
ten	nperatı range	ure	−30°C to +85°C										
Auto	motive	use	_ •									_	
Elec	Insula resist						100M	Ω min. 10	0V DC				
Electrical performance	Volt						250\	/ AC for 1	min.				
	Vibra	ation		10	to 55 to in tl	10Hz/min he 3 direc	., the amp tion of X,	olitude is Y and Z f	1.5mm fo or 2hours	r all the f respecti	requencie vely	es,	
Durability	Lifet	ime		Shall be in accordance with individual specifications.									
Envi per	Co	old					-30	±2℃ for	96h				
Environmental performance	Dry	heat					80:	±2℃ for 9	96h				
ental	Damp	heat				6	60±2℃,9	0 to 95%F	RH for 96h	1			
	Page		281	282	284	288	289	290	282	284	290	292	485

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™ Cautions······335

Product Line of Knobs for TACT Switch™ ·······336

Notes

- 2. marks in "Available for automotive use" indicate that all of the series products can work at the operating temperature range from -40°C to +85°C.

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

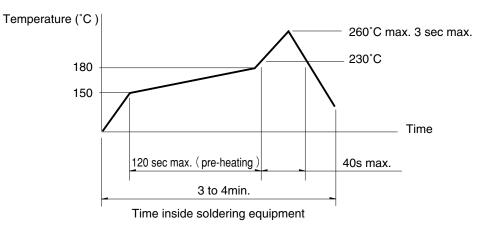
Soldering Conditions

Condition for Reflow

Available for Surface Mount Type.

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 0.1 to 0.2ϕ 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, SKHL, SKQJ, SKQK, SKEG series)

Items	Condition				
Flux built-up	Mounting surface should not be exposed to fluk				
Preheating temperature	Ambient temperature of the soldere 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.				

Manual Soldering (Except SKRT Series)

Items	Condition
Soldering temperature	350°Cmax.
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

Notes

- Consult with us for availability of TACT Switch[™] washing.
- 2. Prevent flux penetration from the top side of the TACT Switch $^{\text{TM}}$.
- 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.)

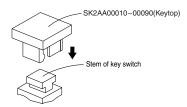
Product Line of Knobs

Unit:mm

Amuliankla madal	D:	mensions			Label dimensions	
Applicable model	DII	mensions	Color	Мо	del	(Unit:mm)
			Keytop			
SKHH Applicable to joint stem type		85 83 9	Red Blue Ivory Black Yellow	SK2AA00410 SK2AA00420 SK2AA00430 SK2AA00440 SK2AA00450		
				Сар		
		00 2	Clear	SK2AA00510		□10
SKHC SKQE		Cap		Keytop	Keytop+Cap	, LET
Applicable to joint stem type		Key top	Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090	Thickness 0.1
				Сар		
		91 4.7	Clear	SK2AA00540		<u> </u>
SKEG	SKEG	Cap		Keytop	Keytop+Cap	MRO'S
Applicable to joint stem type		Key top	Red Blue Ivory Black Yellow	SK2AA00310 SK2AA00320 SK2AA00330 SK2AA00340 SK2AA00350	SK2AA00360 SK2AA00370 SK2AA00380 SK2AA00390 SK2AA00400	Thickness 0.1

Notes

- 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.



Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-Products

Sharp Feeling Soft Feeling Snap-in

Surface Mount Type

Type

Radial Type