TACT Switch™ 5.2mm Square Low-profile (Surface Mount Type)

SKQG Series





Available in two types - 0.8mm height without stem or 1.5mm height with stem.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**

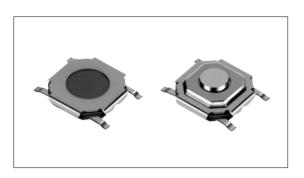
Sharp Feeling Soft

Feeling

Snap-in Type

Surface **Mount Type**

Radial Type



Product Line

Product Line										
Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Variety	Minimum order unit (pcs.)	Drawing No.
SKQGAEE010	0.98N					500,000cycles				
SKQGAAE010	1.57N				50,0 10μΑ 1V DC 500,	500,000cycles	100mΩ max.	Without stem	5,000	1
SKQGACE010	2.55N		rtical 0.25 50mA 12V DC	50 A		50,000cycles				
SKQGAFE010	0.98N	Vertical		12V		500,000cycles			4,000	2
SKQGABE010	1.57N							With stem		
SKQGADE010	2.55N					100,000cycles				
SKQGAKE010	3.43N									

Specification of Embossed Taping Package (Taping Packaging for Auto-insertion) Unit:mm

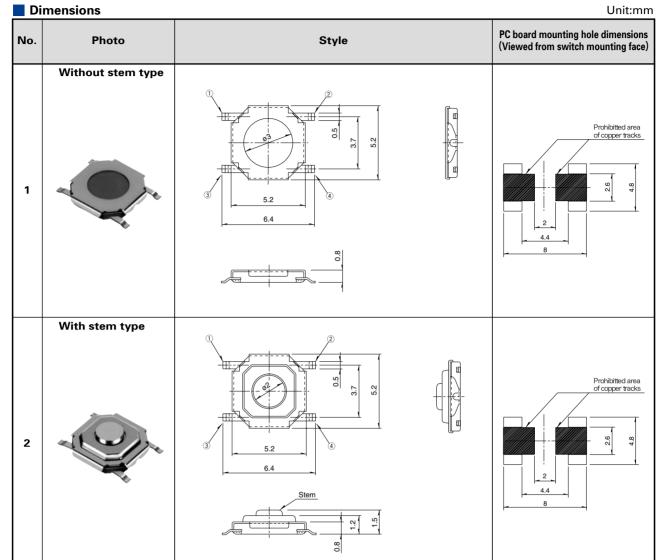
Reel Size

Plastic Reel

	Numbe	Tape			
Series	1 reel	1 case /Japan	1 case /export packing	width (mm)	
SKQGAA SKQGAC SKQGAE	5,000	50,000	50,000	12	
SKQGAB SKQGAD SKQGAF SKQGAK	4,000	40,000	40,000	12	

Note

- 1. Please place purchase orders for taping products per minimum order unit (1 reel or a case).
- 2. For ϕ 330mm diameter reel requirements, please contact us.



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Package Type

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Custom-Products

Sharp Feeling

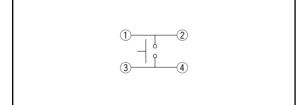
Soft Feeling Snap-in

Type Surface

Mount Type

Radial Type





List of Varieties

Sharp Feeling Type

Ground terminal

Operating

temperature

range

Electrical

Durability

Environmental performance

Insulation

resistance

Voltage proof

Vibration

Lifetime

Cold

		Series		SKQU	SKQB	SKQE	sкнс	ѕкнк	SKRW	SKRM	SKQR	Sł
Detector	Photo		*					(0		
Push		Туре		Snap-in				Surface mo				
Slide	Features		4-direction switch+push switch	Water-proof Horizontal type	Long Life	_	Long Stem	Low-profile				
Rotary	Ope	Ver	tical	SWILCH		•	•	•	•	•	•	
Encoders	Operation Horizo		ontal	_	•					_		
Power	ق د		w		11.5							
Dual-in-line Package Type		Dimensions (mm)		□10	11.9		□12		□3.7	□4.5	·	4.8
TACT Switch™	(7.1	11.3	4	.3	12	0.35	0.4	0.5	0
Custom- Products	foi		1N	See the relevant pages for respective product descriptions	•	1	1	•	1	1	1	
	force coverage		5N	respective product								

Sharp Feeling Soft Feeling

Snap-in Type Surface Mount Type

Radial Type

-30	C	to	+	85	C

SKRB

mount

0.55

274

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

275

276

SKRR

Low-profile and long life

7.5

7

\$

SKQG

Low-profile

□5.2

8.0

100MΩ min. 100V DC

250V AC for 1min. SKRW/RM/RB/RR : 100V AC for 1min.

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 2hours respectively

Shall be in accordance with individual specifications.

−30±2°C for 96h

Dry heat $80\pm2^{\circ}\text{C for 96h}$

Damp heat $60\pm2^{\circ}\text{C}$, 90 to 95%RH for 96h

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

TACT Switch™ Soldering Conditions ·······306

Product Line of Knob for TACT Switch™-------308

Note

The automotive operating temperature range to be individually discussed upon request.

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Dual-in-line Package Type

TACT Switch¹¹

Custom-

Products

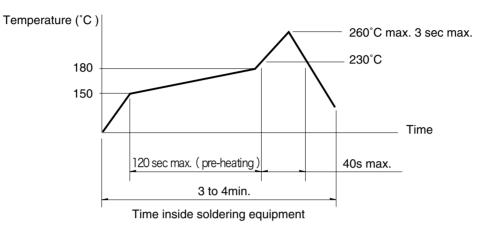
Snap-in Type Surface Mount Type Radial Type

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



Note

- 1. The above temperature shall be measured on the mounting surface of a PC board. 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.

Sharp Feeling Conditions for Auto-dip Available for Snap-in Type and Radial Type (Except SKHJ, SKHL, SKQJ, SKQK, SKEG series)

Items	Condition			
Flux built-up	Mounting surface should not be exposed to fluk			
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.			

Manual Soldering (Except SKRT Series)

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

Notes

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

Mouser Electronics

Authorized Distributor

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ALPS:

SKQGAFE010 SKQGAEE010 SKQGAEE010 SKQGABE010 SKQGACE010 SKQGAKE010