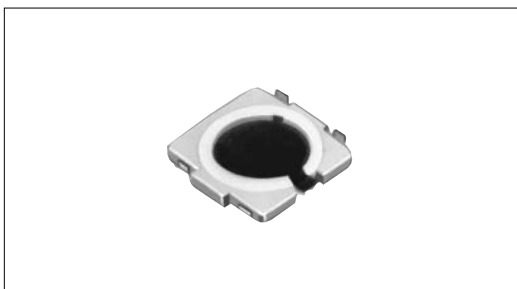


TACT Switch™ 0.5mm Height Low-profile (Surface Mount Type)

SKQR Series



4.8×4.8mm with height of 0.5mm. Compact & low profile.



Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

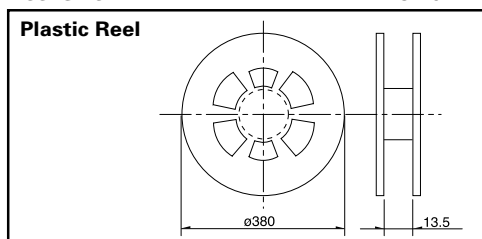
Custom-
Products

Product Line

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Minimum order unit (pcs.)
SKQRAAE010	1.57N	Vertical	0.2	50mA 12V DC	10μA 1V DC	500,000cycles	100m max.	10,000
SKQRACE010	2.35N					50,000cycles		

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

Reel Size Unit:mm



Number of packages (pcs.)			Tape width (mm)
1 reel	1 case /Japan	1 case /export packing	
10,000	100,000	100,000	12

Sharp
Feeling

Soft
Feeling

Snap-in
Type

Surface
Mount Type

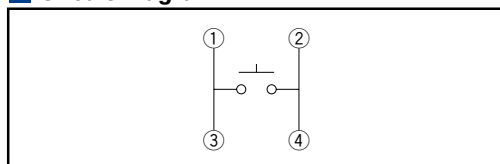
Radial
Type

Dimensions

Unit:mm

Style	PC board land dimensions (Viewed from switch mounting face)

Circuit Diagram














Note

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

Refer to P.306 for soldering conditions.

List of Varieties

Sharp Feeling Type

Series		SKQU	SKQB	SKQE	SKHC	SKHK	SKRW	SKRM	SKQR	SKRB	SKRR	SKQG
Detector	Photo											
Push	Type	Snap-in					Surface mount					
Slide	Features	4-direction switch + push switch	Water-proof Horizontal type	Long Life		Long Stem	Low-profile				Low-profile and long life	Low-profile
Rotary	Operating direction	Vertical										
Encoders		Horizontal										
Power	Dimensions (mm)	W	11.5	12		3.7	4.5	4.8		7.5	5.2	
Dual-in-line Package Type		D	11.9							7		
TACT Switch™		H	7.1	11.3	4.3	12	0.35	0.4	0.5	0.55	0.6	0.8
Custom-Products	Operation force coverage	1N 5N	See the relevant pages for respective product descriptions	•	↕	↕	•	↕	↕	↕	↕	↕
	Ground terminal											
	Operating temperature range	-30 to +85										
Sharp Feeling	Electrical performance	Insulation resistance	100M min. 100V DC									
Soft Feeling		Voltage proof	250V AC for 1min. SKRW/RM/RB/RR : 100V AC for 1min.									
Snap-in Type	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 2hours respectively									
Surface Mount Type		Lifetime	Shall be in accordance with individual specifications.									
Radial Type	Environmental performance	Cold	-30 ± 2 for 96h									
		Dry heat	80 ± 2 for 96h									
		Damp heat	60 ± 2 , 90 to 95%RH for 96h									
	Page	482	265	267	268	270	271	272	273	274	275	276

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 Conditions306
 TACT Switch™ Cautions307
 Product Line of Knob for TACT Switch™308

Note

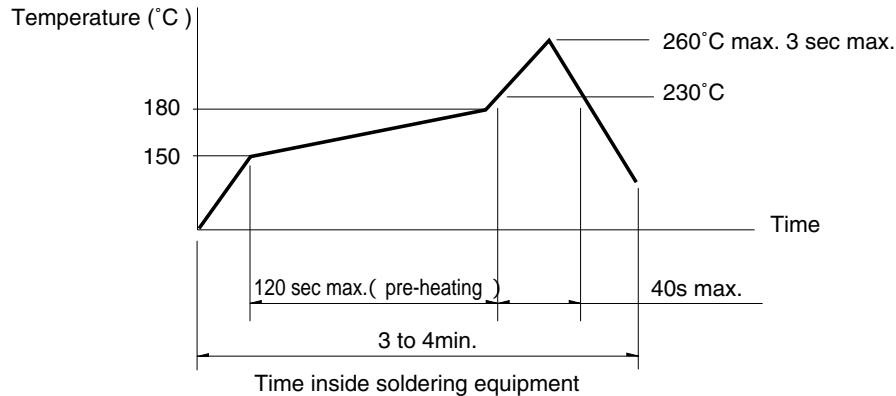
The automotive operating temperature range to be individually discussed upon request.

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 0.2 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.

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

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 max.
Preheating time	60s max.
Soldering temperature	260 max.
Duration of immersion	5s max.
Number of soldering	2times max.

Manual Soldering (Except SKRT Series)

Items	Condition
Soldering temperature	350 max.
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 Switch™.
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.)