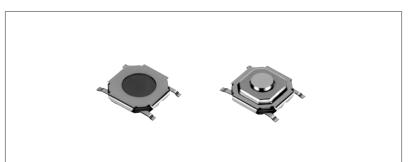
5.2×5.2mm Low-profile TACT Switch (SMD)

SKQG Series

Two types, 0.8mm height without stem or 1.5mm height with stem.





Features

- 5.2×5.2mm dimension suitable for high density mounting.
- Much thinner and lighter than conventional products.
- Flat type with 0.8mm height in pursuit, for thin design.
 "With stem" type in pursuit for easier use.
- Contact sealed construction offers a highly reliable switch.
- Reflow solderable.
- Packaged with a 12mm wide embossed taping.

Applications

 For operating various electronic devices such as audio devices, video recorders, communication devices, cameras, automotive units, electric home appliances, etc. Power

Push

Slide

Rotary

Encoders

Jog

Shuttle

Telephone -hook

Detector

Vibration Sensors

Dual-in-line Package Type

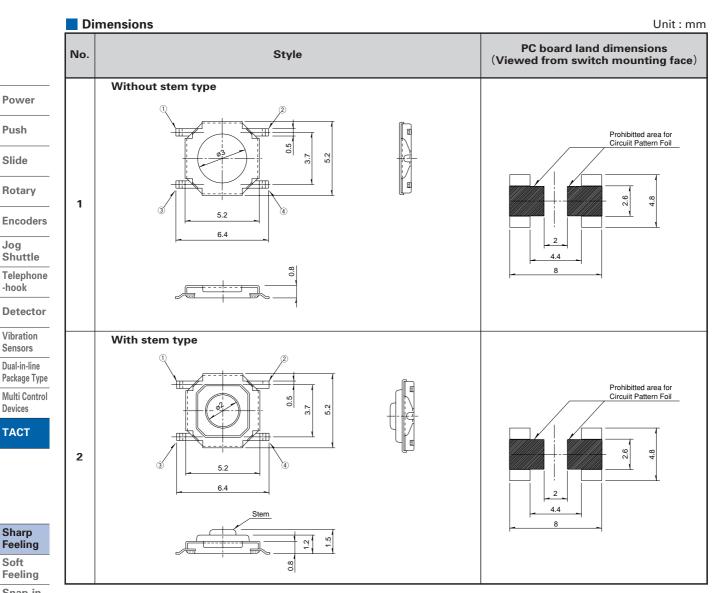
Multi Control Devices

TACT

Products Line

Products No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Operating life (5mA 5V DC)	Initial contact resistance	Variety	Drawing No.		
SKQGAEE010	0.98N				500,000cycles					
SKQGAAE010	1.57N		I 0.25		500,000cycles	_	Without stem	1		
SKQGACE010	2.55N				50,000cycles					
SKQGAFE010	0.98N	Vertical		0.25		50mA 12V DC	500,000cycles	100m Ω max.		
SKQGABE010	1.57N								With stem	2
SKQGADE010	2.55N						100,000cycles		vvitii steiii	_
SKQGAKE010	3.43N				100,00000,0105					

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



Sharp Feeling

Power

Push

Slide

Rotary

Jog Shuttle

-hook

Vibration

Sensors Dual-in-line

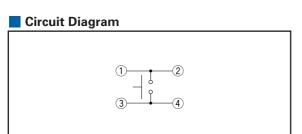
Devices **TACT**

Soft Feeling

Snap-in Type

Surface **Mount Type**

Radial Type



Products Specifications

Items	Series	Sharp feeling type	Soft feeling type		
		-20℃ to +70℃			
Operating temperature range		-30°C to +85°C -30°C to +80°C SKRM / RW SKPG			
		-30°C to +90°C SKRA / RG / RP	-40°C to +90°C SKPF / PL / PM/ PN		
Rating (max.)		50mA 12V DC SKRP : 50mA 16V DC	5mA 12V DC SKPL/PM/PN : 50mA 16V DC		
Rating (min.)		10 μ A 1V DC			
Insulation resistance		100M Ω SKEY/PD : 50M Ω			
performance	Voltage proof	250V AC for 1 min. SKRB/RH/RM/RR/EY/PD : 100V AC for 1min.			
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 2 hours respectively			
Durability	Lifetime	Shall be in accordance with individual specifications.			
Cold		−30±2°C for 96h			
Environmental performance	Dry heat	80±2℃ for 96h			
	Damp heat	60±2°C, 90 to 95%RH for 96h			

Note

We can raise the working temperature range for in-vehicle applications upon request. Contact us if you have any requirements of this kind.

■ Specifications of LED (SKHJ)

Color of light	Power dissipation P (mW)	Forward pulse peak current IFP(mA)	Forward current IFDC(mA)	Reverse voltage VR (V)	Forward voltage VF(V) IF=10mA	Reverse current IR(μ A) VR=4V	Peak emission wave length λ peak(nm) IF=10mA	Spectral line half width Δ λ (nm) IF=10mA	Luminous intensity IV(mcd) IF=10mA
Red					2.7 max.	5 max.	700 TYP	100 TYP	0.4min. 1.0 TYP
Pure green	40	40 80	15	4	2.05TYP	10 max.	555 TYP	20 TYP	0.8min. 2.0 TYP
Amber					2.7 max.		590 TYP	30 TYP	0.4min. 1.0 TYP
Orange (High brightness)				3	2.0 TYP	10 IIIax.	630 TYP	40 TYP	1.5min. 4.0 TYP
Green (High brightness)				4	2.7 max. 2.05TYP		565 TYP	30 TYP	2.0min. 5.0 TYP

Push
Slide
Rotary
Encoders
Jog
Shuttle
Telephone
-hook
Detector
Vibration
Sensors

Power

TACT

Dual-in-line Package Type Multi Control Devices

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

Push

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Telephone -hook

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Vibration

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Dual-in-line
Package Type

Multi Control

Devices

TACT

Sharp

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

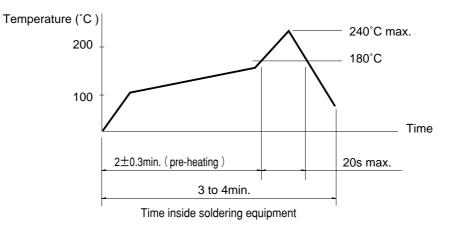
Jog Shuttle

Soldering Conditions

Condition for Reflow

Available for Surface Mount Type. (Except SKHM Series)

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 0.1 to 0.2 ϕ CA (K) or CC (T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.
- 3. Temperature profile



Notes

- The condition mentioned above is the temperature 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 PC board's material, size,
 thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.
 (Except a part of Variety SKRM, SKRR Series)
- 2. Soldering conditions differ depending on reflow soldering machines. You are requested to verify the soldering conditions thoroughly beforehand.
- 3. Ask us for the specifications of lead-free products.

Conditions for Auto-dip

Available for Snap-in Type and Radial Type

Items	Condition	
Flux built-up	Mounting surface should not be coated with flax	
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.	
Preheating time	45s max.	
Soldering temperature	255℃ max.	
Continuous dipping time	5s max.	
Number of soldering	2times max.	

Manual Soldering

Available for Manual Soldering Type

Items	Condition		
Soldering temperature	350°C max.		
Continuous soldering time	3s max.		

Notes

- 1. Consult with us for TACT switch washing conditions.
- 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 returns to normal temperature.
- 5. Use the flux with a specific gravity of at least 0.83. (MH-820V or CF220V by TAMURA Corporation, or their equivalents.)

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Power

Push

Slide

Rotary

Encoders

Jog Shuttle Telephone -hook Detector Vibration Sensors Dual-in-line Package Type Multi Control Devices

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

Specification of Embossed Taping Package

■ Taping Packaging for Auto-insertion

Reel Size Unit : mm

Paper Reel	Applicable Series	W
(3)	SKHM, SKHU, SKQG SKQL, SKQM, SKQR SKQY, SKRB, SKRE SKRAAA, SKRAAB	12.4
ø380 W	SKQT, SKRH SKRAAC, SKRAAF SKPG, SKPN	16.4
	SKQUBA, SKQUDB	32.4

Plastic Reel	Applicable Series	W
	SKRK, SKRM SKRN, SKRP SKRT, SKPM SKRW	13.5
ø360 W	SKRR	17.5

Unit: mm

Unit: mm

Applicable series	Oty / reel (pcs.) (Minimum packing unit)	Tape dimensions			
SKQM, SKPMAM SKPMAN, SKPMAP SKPMAQ	2,000				
SKPMAR, SKPMAS SKPMAT	2,500	Pull direction			
SKHM, SKHU SKQY, SKRT SKRAAA, SKRAAB	3,000	2 4 4 01.5 hole			
SKQG	5,000 (Without stem type) 4,000 (With stem type)	(6.5.5)			
SKRP	4,000				
SKRKAE, SKRKAH	4,500	8 -			
SKQR, SKRB SKRM, SKRW	10,000	,			
SKRE, SKRN, SKRKAG	5,000				
SKQL	3,000	2 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
SKPG	1,200	2 *12 4			
SKRH	1,300	#Excluding SKQT (i.e.8)			
SKRAAC, SKRAAF	1,400				
SKQT	3,000	- (· · · · · · · · · · · · · · · · · ·			
SKRR	7,000				
SKPN	1,100	Pull direction			
SKQUBA	750	40 40 40 40 40 40 40 40 40 40			
SKQUDB	600	40 Pull direction			

Note

Consult with us for a ϕ 330 mm diameter reel.