TACT Switch™

Low Contact Resistance (Surface Mount Type)

SKPM Series



Soft feeling with metal contact provides low contact resistance.

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 (1mA 5V DC)	Initial contact resistance	Minimum order unit (pcs.)
SKPMAME010	1.57N							
SKPMANE010	1.96N	Vertical	1.3	50mA 16V DC	10μA 1V DC	100,000cycles	100mΩ max.	2,000
SKPMAPE010	2.45N							
SKPMBHE010	3N							

Packing Specifications

Taping Unit:mm Reel size

Numbe	er of package	Tape	Export		
1 reel	1 case /Japan	1 case /export packing	width (mm)	package measuremen ts (mm)	
2,000	20,000	20,000	12	401×401×214	

Feeling **Feeling**

Sharp

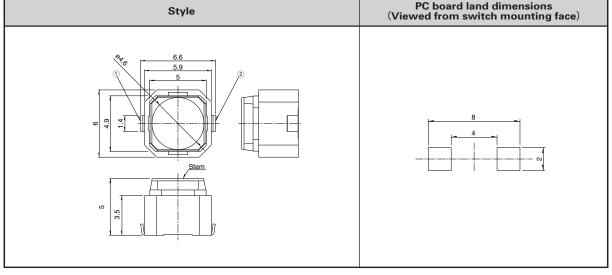
Snap-in Type

Surface **Mount Type**

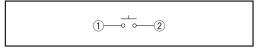
Radial Type



Dimensions Unit:mm



Circuit Diagram



Notes

- 1. For ϕ 330mm diameter reel requirements, please contact us.
- 2. Please place purchase orders per minimum order unit N (integer).

Refer to P.334 for soldering conditions.

List of Varieties

Soft Feeling Type

Series		SKEG	SKEG	SKEY	SKPF	SKPM	SKPG	SKPR	SKPL	SKPD	
Photo											
	Туре			Sna	ap-in Surface mount			Radial			
Features		_	Horizontal type	_	High operation force and long travel	Low contact resistance	_	High operation force and Low contact resistance	Round terminal and low contact resistance	_	
Oper	Vertical Horizontal		•	_	•	•	•	•	•	•	•
Operating direction			_	•							
		w	□6	7.5	- □7.8	8	5.9	6.6	7.5	· ∲6.45	□7.8
	nsions m)	D	۵	9.9		9	6	6.3	7.8		
		Н	7	7.3	5	10	į	5	6.5	į	5
(Contact	t		Car	bon		Silver Carbon		Sil	ver Carbon	
1N Operation force coverage 5N		1	1	\uparrow	1	1	1	•	\$	\uparrow	
Tra	vel (mr	n)		1	1 1.2	See the relevant pages for respective product descriptions	1.	.3	1	1.3	See the relevant pages for respective product descriptions
Grou	ınd terr	ninal		-		'			1	_	,
Operating temperature range		-20°C to	+70°C	-40°C to +90°C							
	motive	use	• •				•	•	•	•	•
Electrical performance	Insula resist	ation tance	100M Ω min. 100V DC SKEY/PDAC, PDAL, PDAM : 50M Ω min. 100V DC								
trical mance	Volt	age	250V AC for 1min. SKEY/PDAC, PDAL, PDAM : 100V AC for 1min.								
	Vibra	ation	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								
Durability	Lifet	time	Shall be in accordance with individual specifications.								
Envi	Co	old	−30±2°C for 96h								
Environmenta performance	Dry	heat	80±2°C for 96h								
ental	Damp	heat				60±2℃,	90 to 95%R	H for 96h			
	Page		32	25	327	328	329	330	331	332	333

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

Note

•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.

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Custom-**Products**

Sharp Feeling Soft **Feeling**

Snap-in Type Surface

Mount Type Radial

Type

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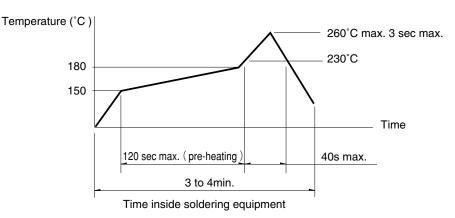
Products

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 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)

Condition
350°C max.
3s max.
60W max.

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

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.)