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

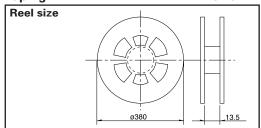


Product Line

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	10 <i>μ</i> A 1V DC	100,000cycles	100mΩ max.	2,000
SKPMAPE010	2.45N							
SKPMBHE010	3N							

Packing Specifications

Taping Reel size Unit:mm



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		

Surface

Mount Type Radial

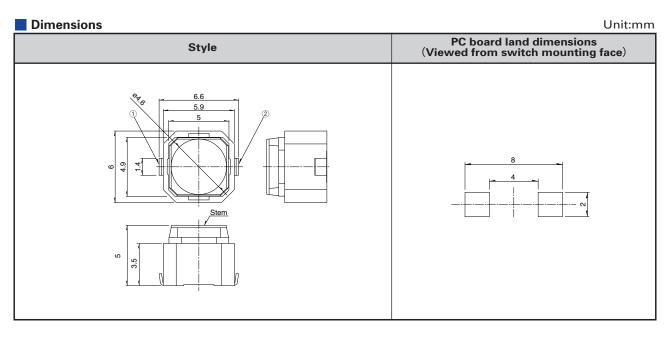
Sharp Feeling

Feeling

Snap-in Type

Type





Circuit Diagram

Notes

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

ist of Varieties

Soft Feeling Type

Soft Feeling Type											
Series		SKEG	SKEG	SKEY	SKPF	SKPM	SKPG	SKPR	SKPL	SKPD	
Photo											
Туре		Snap-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	_	
Operating direction	Vertical		•	_	•	•	•	•	•	•	•
	Horizontal		_	•							
Dimer		w		7.5		8	5.9	6.6	7.5	- φ6.45 □	
	nsions nm)	D	□6	9.9	☐7.8	9	6	6.3	7.8		□7.8
		Н	7	7.3	5	10	Ę	5	6.5	!	5
Contact		Carbon		Silver	Carbon	Sil	ver	Carbon			
Operation force coverage		1N 5N	1	1	1	1	1	1	•	‡	1
Travel (mm)		,	1 See the relevant pages for respective product descriptions			1.3 1 1.3 respective pr			See the relevant pages for respective product descriptions		
Ground terminal											
Operating temperature range		-20°C to	-20°C to +70°C								
Automotive use				- • • • •				•	•		
Insulation resistance			100M Ω min. 100V DC SKEY/PDAC, PDAL, PDAM : 50M Ω min. 100V DC								
Electrical performance	Volt		250V AC for 1min. SKEY/PDAC, PDAL, PDAM : 100V AC for 1min.								
Þ	Vibra	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									
in the 3 direction of X, Y and Z for 2hours respectively Lifetime Shall be in accordance with individual specifications.											
Envi per	Co	old	-30±2℃ for 96h								
Cold -30±2°C for 96h											
ental ince	Damp heat 60±2°C, 90 to 95%RH for 96h										
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 $\begin{array}{lll} W: Width. \ The \ most \ outer \ dimension \ excluding \ terminal \ portion. \\ D: Depth. \ The \ most \ outer \ dimension \ excluding \ terminal \ portion. \\ H: Height. \ The \ minimum \ dimension \ if \ there \ are \ variances. \end{array}$

■ TACT Switch™ Cautions······335

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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Sharp Feeling Soft **Feeling** Snap-in Type

Surface **Mount Type Radial**

Type

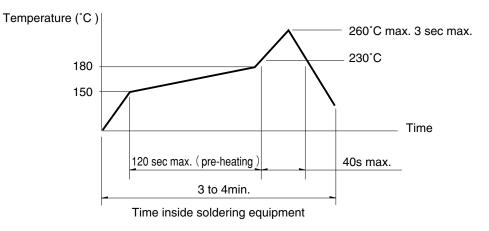
Soldering Conditions

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 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.		

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

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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.)