TACT Switch[™] High Operation Force with 5mm Height (Surface Mount Type)

SKPG Series

RoHS

Low-profile surface mount type with high operation force most suitable for in-car components.

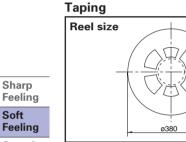


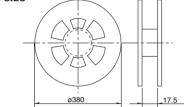
Product Line

	i loudot Elilo									
I	Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Rubber color	Minimum order unit (pcs.)
	SKPGACE010	1.18N	2.45N Vertical	1.3	5mA 12V DC	10µA 1V DC	50,000cycles	1kΩ max.	Light blue	1,200
	SKPGAAE010	2.45N							Green	
	SKPGABE010	2.94N							Blue	

Unit:mm

Packing Specifications





Numbe	er of package	Таре	Export		
1 reel	1 case /Japan	1 case /export packing	width (mm)	package measurements (mm)	
1,200	9,600	9,600	16	401×401×214	

Soft Feeling Snap-in Туре

Sharp

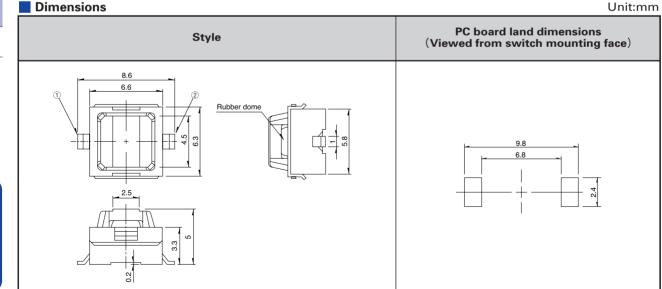
Power

Dual-in-line Package Type TACT Switch™ Custom-**Products**

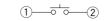
Dimensions

Mount Type Radial Туре

Surface



Circuit Diagram



Notes

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



Automotive Use

List of Varieties

Soft Feeling Type

	Series		SKEG	SKEG	SKEY	SKPF	SKPM	SKPG	SKPL	SKPD	
	Photo										
	Туре		,	Sna	p–in	,	Surface mount Radial			dial	
	Feature	s	_	Horizontal type	_	High operation force travel	Low contact		Round terminal and low contact resistance		
Ope	Vert	tical	•	_	•	•	•	•	•	•	
Operating	Tatin Horizontal		_	•						I	
		w		7.5		8	5.9	6.6			
	nsions nm)	D	6	9.9	7.8	9	6	6.3	<i>− </i>	□7.8	
		н	7	7.3	5	10	5		5	I	
	Contact	t		Car	bon		Silver	Carbon	Silver	Carbon	
fo	ration orce erage	1N	↓ ↓	Ĵ	Ţ	Ĵ	Ĵ	Ĵ	\$	Î	
		5N									
	und terr Operatin										
	emperature range		-20°C to +70°C −40°C to +90°C								
Elec	Insul resist		100MΩ min. 100V DC SKEY/PD : 50MΩ min. 100V DC								
Electrical	Volt	age oof	250V AC for 1min. SKEY/PD : 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	ime	Shall be in accordance with individual specifications.								
Env	Co	ld	−30±2℃ for 96h								
1.5		heat	80±2°C for 96h								
vironm	Dry			60±2℃, 90 to 95%RH for 96h							
Environmental	Dry Damp	heat			6	60±2℃, 90 to 9	95%RH for 96	511			

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Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-

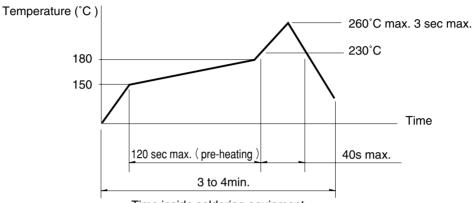
Products

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 0.2 ϕ CA (K) or CC (T) at solder joints (copper foil surface). A heat resistive tape should be used to fix thermocouple.
- 3. Temperature profile



Time inside soldering equipment

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 SKHJ, SKHL, SKQJ, SKQK, SKEG series)

ltems	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)

ltems	Condition			
Soldering temperature	350℃max.			
Duration of soldering	3s max.			
Capacity of soldering iron	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.)