## **TACT** Switch<sup>™</sup> Low-profile with High Operation Force (Snap-in Type)

SKPE Series

RoHS

# High operation force best suitable for automotive use.



Push

Slide

Rotary

Encoders

Power

Dual-in-line

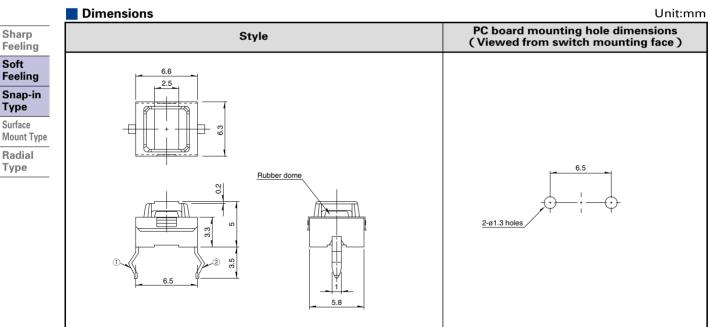
Package Type

### TACT Switch™

Custom-

P	r	D	d	u	C.	t	Li	in	IE

Product No.	Operating force	Operating direction		Rating (max.)		Operating life (5mA 5V DC)		Rubber color	Minimum order unit ( pcs. )	
SKPEADA010	1.18N			<b>F A</b>	40.4			Light blue		
SKPEAAA010	2.45N Vertical	1.3	5mA 12V DC	10 µ A 1V DC	50,000cycles	1k max.	Green	1,000		
SKPEABA010	2.94N			121 20	10 00			Blue		



## 📕 Circuit Diagram

1-0-2

## Note

Using a 1.6mm thick PC board is recommended.







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# List of Varieties

## Soft Feeling Type

	Series		SKEG	SKPE	SKEG	SKEY	SKPF	SKPM	SKPN	SKPG	SKPL	SKPD
Photo				<b>\$</b>		R.						
	Туре		,	/	Snap–in	7	, ,	Surface mount		unt	Radial	
F	eature	e			Horizontal			Low contact			Round terminal and	
					type		and long stroke	resis	tance	<u> </u>	low contact resistance	
<b>Operating</b> direction	Vert	tical										
ting	Horiz	ontal		1			,		1	1		
		w	6	6.6	7.5	7.8	8	5.9	6	6.6	<i>∳</i> 6.45	7.8
Dimens ( mn		D	0	6.3	9.9	7.0	9	6	6.7	6.3	φ0.45	7.0
		н	7	5	7.3	5	10	5	7		5	
Contact					Carbon			Sil	ver	Carbon Silver Carbon		
1N Operation force coverage		1N	1	Î Î	1	Ţ	Ţ	Ĵ	\$	↓ ↓	\$	Ţ
	-	5N										
Grou	nd terr	ninal										
Operating temperature range		-20 to +70 SKEG										
		-40 to +90										
Elec		ation tance	100M min. 100V DC SKEY/PD : 50M min. 100V DC									
Electrical	Volt		250V AC for 1min. SKPN : 200V AC for 1min. SKEY/PD : 100V AC for 1min.									
	Vibra		10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies,									
Durability	Lifet	time	in the 3 direction of X, Y and Z for 2hours respectively Shall be in accordance with individual specifications.									
	Co	old	-30 ± 2 for 96h									
5			80 ± 2 for 96h									
Environ		heat			60 ± 2 , 90 to 95%RH for 96h							
Environmental	Dry	heat o heat				60 +	2 90 to 9	95%BH for	r 96h			

D epth. The most outer dimension excluding terminal portion.
H : Height. The minimum dimension if there are variances.



260°C max. 3 sec max.

Time

230°C

40s max.

# Soldering Conditions

#### Condition for Reflow

#### Available for Surface Mount Type.

1. Heating method: Double heating method with infrared heater.

Temperature (°C)

180

150

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.

## Push 3. Temperature profile

Slide

Detector

Rotarv

Encoders

Power

#### Dual-in-line Package Type

## TACT Switch<sup>™</sup>

Custom-Products

#### 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.

3 to 4min.

Time inside soldering equipment

120 sec max. ( pre-heating

2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

### 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)

ltems	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<sup>™</sup> washing.
- 2. Prevent flux penetration from the top side of the TACT Switch<sup>™</sup>.
- 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.)

## ALPS