# **TACT** Switch<sup>™</sup> 6.2 × 6.5mm (Surface Mount Type)

**SKHM** Series



Unit:mm

# Total hight of 3.1mm. Surface mount package with ground terminal.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

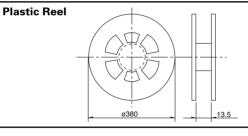
Custom-**Products** 

Product Line										
Product No.	Operating force	Operating direction	Travel ( mm )	Rating (max.)	Rating ( min. )	Operating life (5mA 12V DC)	Initial contact resistance	Stem color	Minimum order unit ( pcs. )	
SKHMQKE010	0.98N					500,000cycles		Black	3,000	
SKHMQLE010	1.57N	Vertical	0.25	50mA 12V DC	10 <i>µ</i> A 1V DC	300,000cycles	100m max.	Green		
SKHMQME010	2.35N					200,000cycles		Red		

#### Specification of Embossed Taping Package (Taping Packaging for Auto-insertion) **Reel Size**

Unit:mm

Sharp Feeling Soft Feeling Snap-in Туре

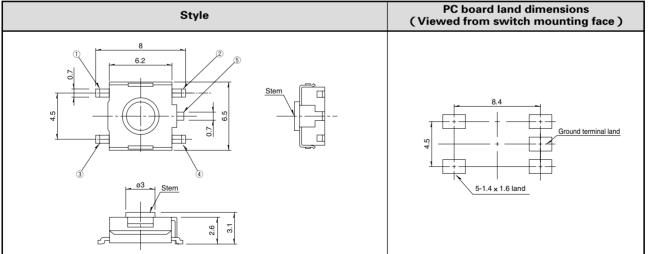


Num					
1 reel	1 case /Japan	1 case /export packing	Tape width (mm)		
3,000	30,000	30,000	12		

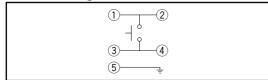
### Dimensions

Mount Type Radial Туре

Surface



### Circuit Diagram



## Note

- 1. Please place purchase orders for taping products per minimum order unit (1 reel or a case).
- 2. For 330mm diameter reel requirements, please contact us.

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# List of Varieties

#### Sharp Feeling Type

	-	sing i		CKDN	ever	ODEE	ek Dik	SKRP	CKOM	ekov	CKDA	SKHM	CK111
	Series		SKSD	SKRN	SKSE	SPEE	SKRK	SKRP	SKQM	SKQY	SKRA	SKHM	SKHU
Photo			Ô	OP	Ser.				۹	Ser.	R	P	
	Туре					•	Su	irface mou	unt				
Features		s	Double	Double action Horizon Double		ntal type e action	Compact size Low-profile	High operation force Compact size	Compact size		Middle stroke	Dust–proo type is available	
Oper dire	Ver	tical											
Operating direction	Horiz	ontal											
		w	4.1	6	5.9	4	3.9	4.2	6	6.1	6.2	6.2	
	nsions m )	D	3.9		2.87	5	2.9	3.2	3.5	3.7		6	6.5
		н	0.6	0.9	3	1.22	1.5	2.5	4.3	2.5	3.4	3.1	2.5
1N Operation force coverage		1N	See the	e relevant p product de	ages for res escriptions	spective	\$	<b>↓</b>	Ĵ	Ţ	<b>↓</b>	Ĵ	Ì
5N													
Grou	nd terr	ninai											
Operating temperature range			-30	0 to +8	5	-10 to +60	-30 to +85						
Insulation resistance			100M	min. 10	0V DC	10M min. 100V DC 100M min. 100V DC							
PerformanceInsulation resistanceVoltage proof			250V AC for 1min. 100V AC for SKSD/SE : 100V AC for 1min. 1min. 250V AC for 1min.										
	Vibra	ation		10	) to 55 to in t	10Hz/min he 3 direc	min., the amplitude is 1.5mm for all the frequencies, lirection of X, Y and Z for 2hours respectively						
Durability	Lifet	time	Shall be in accordance with individual specifications.										
Envi	Co	old	-30 ± 2 for 96h			-40 ± 2 for 96h	-30 ± 2 for 96h						
performance Damp heat			80 ± 2 for 96h			85 ± 2 for 96h	80 ± 2 for 96h						
)ntal nce	Damp	o heat	60 ± 2	, 90 to 95 96h	%RH for	40 ± 2 , 90 to 95%RH for 96h							
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 $\begin{array}{l} W: Width. \ The most outer dimension excluding terminal portion. \\ D: Depth. \ The most outer dimension excluding terminal portion. \\ H: Height. \ The minimum dimension if there are variances. \end{array}$ 

#### Note

The automotive operating temperature range to be individually discussed upon request.



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