# **4.5**×3.55mm Sidepush<sup>™</sup> (Surface Mount Type)

**SKRT** Series

RoHS compliant

## Horizontal push with high solder strengh & tactile feeling.

Detector

Push

Slide

Rotary

Encoders

Power

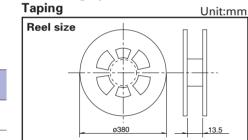
Dual-in-line Package Type TACT Switch™ Custom-Products



Product Line

_										
9	Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Variety	Minimum order unit (pcs.)
	SKRTLAE010	1.6N	Horizontal	0.2	50mA 12V DC	10µA 1V DC	100,000cycles	500m Ω max.	With guide bosses	3.000
	SKRTLBE010	1.011							Without guide bosses	3,000

## Packing Specifications

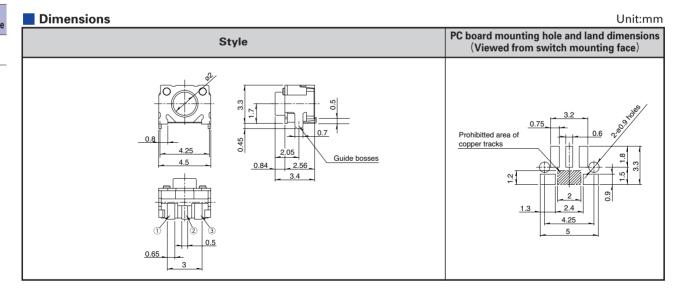


Numbe	er of package	Tape	Export package			
1 reel	1 case /Japan	1 case /export packing	width (mm)	measurements (mm)		
3,000	30,000	30,000	12	401×401×214		

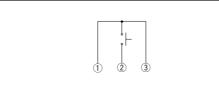
Snap-in Type Surface Mount Type

Sharp Feeling Soft Feeling

Radial Type



## Circuit Diagram



## Notes

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

## ALPS

## List of Varieties

## Sharp Feeling Type

	Sharp reening T													
_	Series		SKHU	SKSC	SKRE	SKRT	SKRV	SKRH	SKQU	SKRG	SKQK	SKQN	SKRC	
	Photo		Cr		4				٩		***	888	888 100	
	Туре		Surface mount Radial											
Features		Dust-proof type is available	Low-p Horizon		Horizontal type	4-direct	4-direction switch+push switch		Round terminal type	_	Round terminal Horizontal type	Water- proof		
dire	Vert	ical	•		_		•	•	•	•	•	_	•	
direction Horizontal			•	•	•				11		•			
	-0		w	6.2	3.5	3.9	4.5	6.45	7.35				7.3	
		nensions (mm)		6.3		3.55		6.4	7.5	□10	¢6.2	□6.6	6.85	<i>φ</i> 9
			н	2.5	1.25	1.5	3.3	4	5	7.1	4.3	5	7.1	13
1N Operation force coverage 5N		¢	\$	\$	•	for res	e relevant pective p escriptior	roduct	ţ	\$	\$	\$		
Gr	Ground terminal		ninal	•	_	_	•	•	•		<u> </u>		11	
t	Operating temperature range Insulation resistance Voltage proof		-30°C to +70°C to -30°C to +70°C											
				+85℃ -30℃ to +85℃										
perforr			100MΩ min. 100V DC											
nance		Voltage proof		250V AC 250V AC for 1min.   for 1min. SKSC/RE/RV/RH : 100V AC for 1min.										
Durability		Vibra	tion	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										
bility		Lifet	ime	Shall be in accordance with the individual specification.										
per		Cold		−30±2℃ for 96h										
performance		Dry heat		80±2℃ for 96h										
ince	Damp heat		60±2℃, 90 to 95%RH for 96h											
	F	Page		311	313	314	315	491	492	493	316	318	317	319
	ACT	Switz	b™ So	Idoring (	andition	c	D :De H :He	pth. The to ight. The r	otal dimen ninimum d	sion exclu dimension	ding termin ding termin if there is o	nal portio difference	n. e in product	-
				-							• • • • • • • • • • • • • • • • • • • •			
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Note

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

## ALPS

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-

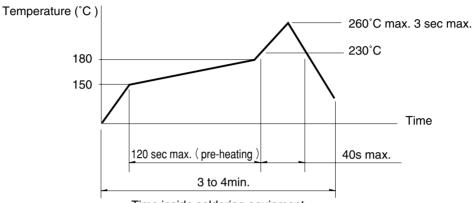
Products

## 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  $\phi$  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<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.)