6.2mm Square with Middle-travel (Surface Mount Type)

SKRA Series



Rubber stem helps to achieve travel of 0.3 to 0.55mm & over travel.



Product Line

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Minimum order unit (pcs.)
SKRAAUE010	0.6N		0.35			5,000,000cycles		Green	
SKRAAKE010	2.45N		0.3			100,000cycles	100mΩ max.	White	3,000
SKRAALE010	3.92N	Vertical	0.35	12V DC	10μA 1V DC				
SKRAAME010	1.96N		0.5					Blue	1,400
SKRAAQE010	3.43N		0.55					bide	1,400

Push

Slide

Detector

Rotary

Encoders

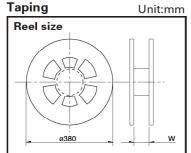
Power

Dual-in-line Package Type

TACT Switch™

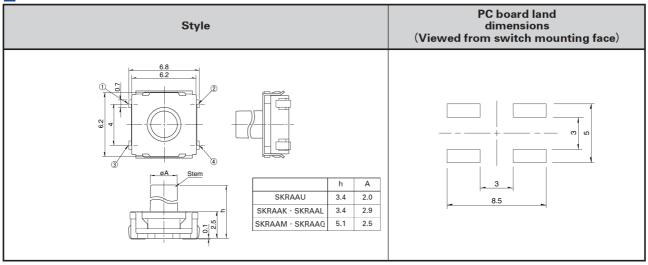
Custom-Products

Packing Specifications



	Number	r of packag	es(pcs.)	Destar 144	Tape	Export package measurements (mm)	
Series	1 reel	1 case /Japan	1 case /export packing	Real width W(mm)	width (mm)		
SKRAAK SKRAAL SKRAAU	3,000	30,000	30,000	13.5	12	401×401×214	
SKRAAM SKRAAQ	1,400	11,200	11,200	17.5	16	401 ^ 401 ^ 214	

Dimensions Unit:mm



Sharp Feeling

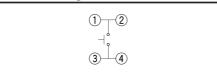
Soft **Feeling** Snap-in Type

Surface Mount Type

Radial Type

Use





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

Refer to P.334 for soldering conditions.

ist of Varieties

Sharn Feeling Type

Sharp Feeling Type														
	Series		SKRN	SKSE	SPEE	SKSF	SKSG	SKRK	SKRP	SKQM	SKQY	SKRA	SKHM	
Photo			1	San Park	٩		•				9			
	Type						Su	rface mo	unt					
Features		Double action			Compact size Low-profile	High operation force Compact size	Compact size High operation force Low-profile Compact size		Compact size		Middle travel	_		
Operating direction	Ver	tical	•	•		•	•	•	•	•	•	•	•	
ating ction	Horiz	Horizontal		•	•							-		
		w		5.9	4	2.8	3	3.9	4.2	6	6.1		6.2	
	nsions im)	D	□6	2.87	5	2.4	2.7	2.9	3.2	3.5	3.7	□6.2	6.5	
		Н	0.9	3	1.22	0.65	1.4	1.5	2.5	4.3	2.5	3.4	3.1	
Operation force coverage		1N 5N		relevant pa product de		•	1	‡	1	1	1	1	1	
Travel (mm)			See the relevant pages for respective product descriptions		0.1	0.12	0.13	0.2	0.	25	See the relevant pages for respective product descriptions	0.25		
Ground terminal		•	_			•		_		•	_	•		
Operating temperature range		-30°C to	+85°C	-10°C to +60°C	-30°C to +85°C									
Automotive use		_				0	_	•	•	•	0	_		
Elec	Insulation resistance		100MΩ 100\		10MΩ min. 100V DC			100MΩ min. 100V DC						
Electrical performance		tage oof	250V AC for 1min.		100V AC	for 1min.				250V AC	for 1min.			
	Vibra	ation	on 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							es,				
Durability	Life	Shall be in accordance with individual specifications.												
Envi	Co	old	-30±2℃	for 96h	-40±2℃ for 96h									
Environmental performance	Dry	heat	80±2℃	for 96h	85±2℃ for 96h	80±2℃ for 96h								
Damp heat			60±2°0 95%RH		40±2°C, 90 to 95%RH for 96h									
	Page		306	307	102	308	309	310	311	312	313	314	315	

 $\begin{array}{ll} W: Width. \ The \ most \ outer \ dimension \ excluding \ terminal \ portion. \\ D: Depth. \ The \ most \ outer \ dimension \ excluding \ terminal \ portion. \end{array}$

H: Height. The minimum dimension if there are variances.

- TACT Switch™ Soldering Conditions ·······334
- Product Line of Knobs for TACT Switch™ ·······336

Notes

- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. Omarks in "Available for automotive use" indicate that some of the series products can work at the operating temperature range from -40°C to +85°C, omarks 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.

Detector

Push

Slide

Rotary

Encoders

Power Dual-in-line Package Type

TACT Switch™

Custom-Products

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

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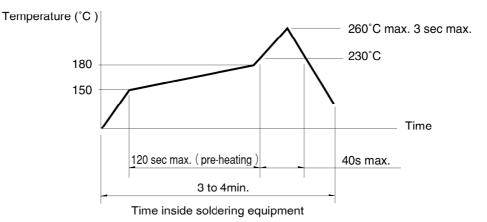
Soldering Conditions

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)

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)

Items	Condition			
Soldering temperature	350°C 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.
- Use the flux with a specific gravity of min 0.81. (EC-19S-8 by TAMURA Corporation, or equivalents.)