

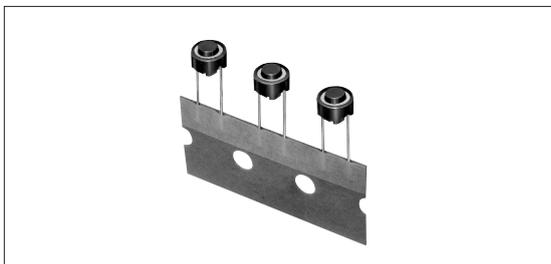
# TACT Switch™ 6.2mm Diameter Round Terminal (Radial Type)

SKRG Series



Round terminal vertical type with excellent PC board mounting performance.

- Detector
- Push
- Slide
- Rotary
- Encoders



## Product Line

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Minimum order unit (pcs.)
SKRGAAD010	1.27N	Vertical	0.25	50mA 12V DC	10μA 1V DC	500,000cycles	500mΩ max.	Black	h=4.3mm	2,000
SKRGABD010	1.57N							White		
SKRGACD010	2.55N					Gray				
SKRGADD010	1.27N					Black		h=5mm		
SKRGAED010	1.57N					White				
SKRGAFD010	2.55N					Gray		h=7mm		
SKRGALD010	1.27N					Black				
SKRGAMD010	1.57N					White				
SKRGAND010	2.55N					Gray		h=9.5mm		
SKRGAQD010	1.27N					Black				
SKRGARD010	1.57N					White				
SKRGASD010	2.55N					Gray				

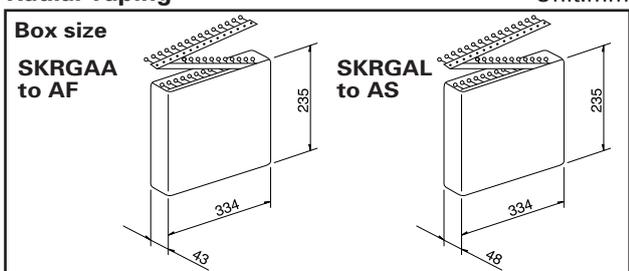
- Dual-in-line Package Type
- TACT Switch™
- Custom-Products

- Sharp Feeling

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

## Packing Specifications

### Radial Taping



Number of packages (pcs.)			Export package measurements (mm)
1 box	1 case /Japan	1 case /export packing	
2,000	20,000	20,000	SKRGAA to AF 353 × 506 × 244
			SKRGAL to AS 353 × 506 × 269

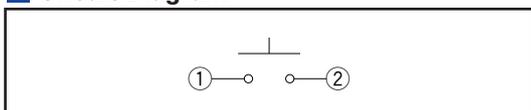
## Dimensions

Unit:mm

Style	PC board mounting hole dimensions (Viewed from switch mounting face)										
<table border="1"> <thead> <tr> <th>h</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>4.3</td> <td>3.4</td> </tr> <tr> <td>5</td> <td>3.4</td> </tr> <tr> <td>7</td> <td>3.2</td> </tr> <tr> <td>9.5</td> <td>2.9</td> </tr> </tbody> </table>	h	A	4.3	3.4	5	3.4	7	3.2	9.5	2.9	
h	A										
4.3	3.4										
5	3.4										
7	3.2										
9.5	2.9										



## Circuit Diagram



## Notes

1. Please use 1.6mm thick PC boards.
2. Please place purchase orders per minimum order unit N (integer).

Refer to P.334 for soldering conditions.

## List of Varieties

### Sharp Feeling Type

Series	SKHU	SKSC	SKRE	SKRT	SKRV	SKRH	SKQU	SKRG	SKQK	SKQN	SKRC	
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												
Operating direction	Vertical	●	—			●	●	●	●	●	—	●
	Horizontal	—	●	●	●	—				●	—	
Dimensions (mm)	W	6.2	3.5	3.9	4.5	6.45	7.35	□10	φ6.2	□6.6	7.3	φ9
	D	6.3	3.55			6.4	7.5				6.85	
	H	2.5	1.25	1.5	3.3	4	5	7.1	4.3	5	7.1	13
Operation force coverage	1N	↕	↕	↕	●	See the relevant pages for respective product descriptions			↕	↕	↕	↕
	5N											
Travel (mm)		0.25	0.2			See the relevant pages for respective product descriptions			0.25			
Ground terminal		●	—	●	—							
Operating temperature range		-20°C to +70°C SKRV/QK										
		-30°C to +85°C										
Automotive use	○	—						●	—	●	—	
Electrical performance	Insulation resistance	100MΩ min. 100V DC										
	Voltage proof	250V AC for 1min. SKSC/RE/RV/RH : 100V AC for 1min.										
Durability	Vibration	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										
	Lifetime	Shall be in accordance with the individual specification.										
Environmental performance	Cold	-30±2°C for 96h										
	Dry heat	80±2°C for 96h										
	Damp heat	60±2°C, 90 to 95%RH for 96h										
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W : Width. The total dimension excluding terminal portion.  
 D : Depth. The total dimension excluding terminal portion.  
 H : Height. The minimum dimension if there is difference in product variety.

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### Notes

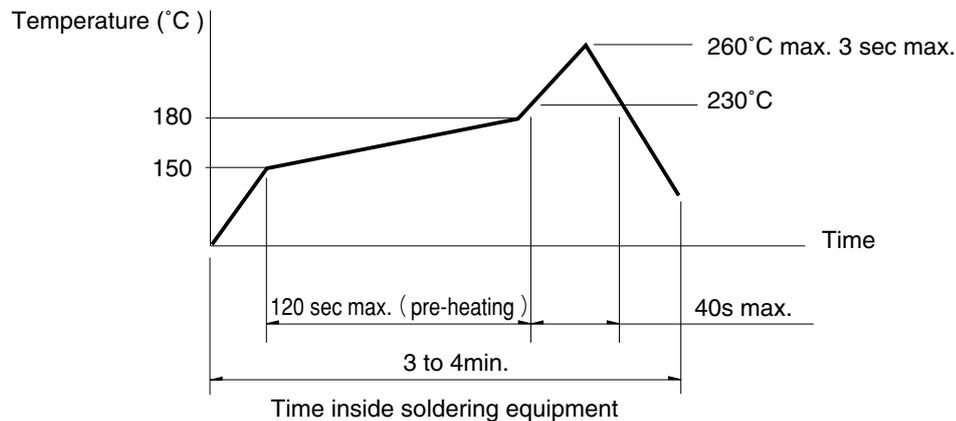
- The automotive operating temperature range to be individually discussed upon request.
- marks in "Available for automotive use" indicate that some of the series products can work at the operating temperature range from -40°C to +85°C, ●marks in "Available for automotive use" indicate that all of the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

## 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



### 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)

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
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.

### 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.)

### Manual Soldering (Except SKRT Series)

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line  
Package Type

TACT Switch™

Custom-  
ProductsSharp  
FeelingSoft  
FeelingSnap-in  
TypeSurface  
Mount TypeRadial  
Type