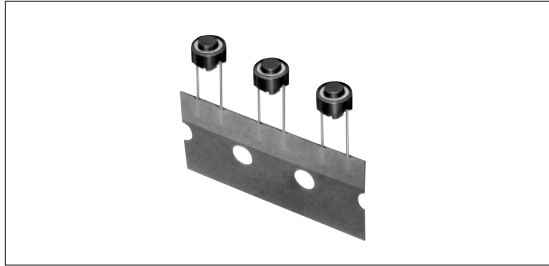


# TACT Switch™ 6.2mm Diameter Round Terminal (Radial Type)

SKRG Series



Round terminal vertical type with excellent PC board mounting performance.

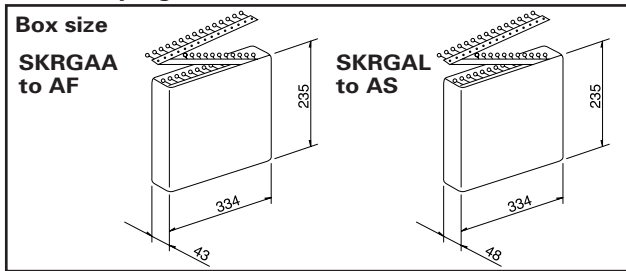


## Product Line

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	
SKRGALD010	1.27N					Black		h=7mm		
SKRGAMD010	1.57N								White	
SKRGAND010	2.55N								Gray	
SKRGAQD010	1.27N					Black		h=9.5mm		
SKRGARD010	1.57N								White	
SKRGASD010	2.55N								Gray	

## Packing Specifications

### Radial Taping



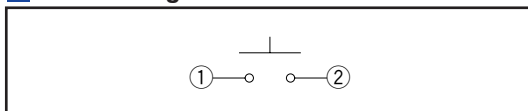
Number of packages (pcs.)			Export package measurements (mm)
1 box	1 case /Japan	1 case /export packing	
2,000	20,000	20,000	SKRGAA to AF 353×506×244
			SKRGAL to AS 353×506×269

## 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

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

Refer to P.328 for soldering conditions.

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



Automotive  
Use

## List of Varieties

### Sharp Feeling Type

Series	SKHU	SKSC	SKRE	SKRT	SKRV	SKRH	SKQU	SKRG	SKQK	SKQN	SKRC		
Detector	Photo												
Push	Type												
Slide	Surface mount							Radial					
Rotary	Features	Dust-proof type is available	Low-profile Horizontal type	Horizontal type	4-direction switch+push switch			Round terminal type	—	Round terminal Horizontal type	Water-proof		
Encoders	Operating direction	Vertical	—			●	●	●	●	●	—	●	
		Horizontal	—	●	●	●	—				●	—	
Power	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
Custom-Products	Operation force coverage	1N	↕	↕	↕	●	See the relevant pages for respective product descriptions			↕	↕	↕	↕
		5N	↕	↕	↕	●				↕	↕	↕	↕
Sharp Feeling	Operating temperature range	Ground terminal	●	—		●	●	●	—				
			Operating temperature range	-30°C to +85°C	-20°C to +70°C SKRV/QK								
Soft Feeling	Electrical performance	100MΩ min. 100V DC											
Snap-in Type		Insulation resistance	100MΩ min. 100V DC										
Surface Mount Type	Durability	Voltage proof	250V AC for 1min.	250V AC for 1min. SKSC/RE/RV/RH : 100V AC for 1min.									
Radial Type		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											
	Page	311	313	314	315	491	492	493	316	318	317	319	

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.

- TACT Switch™ Soldering Conditions .....328
- TACT Switch™ Cautions .....329
- Product Line of Key cap for TACT Switch™ .....330

#### Note

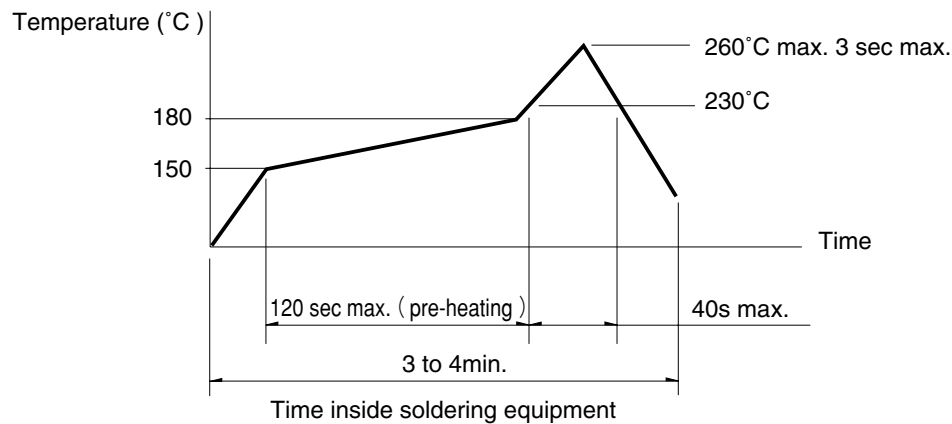
The automotive operating temperature range to be individually discussed upon request.

## 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 SKHJ, 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