

1.4mm height low-profile type with 8-contact and center push function.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

Multi Control Devices

TACT Switch™

Custom-Products

Variable Resistor Type Switch Type

rusii

8-contact | Free-direction | Co

Features

- 10.85mm, 3mm stem, 1.4mm height, a low-profile type.
- Slide operation has soft feeling by rubber.
- Available for reflow soldering.

Applications

 For various portable electronic devices-mobile phones and personal digital assistants

Typical Specifications

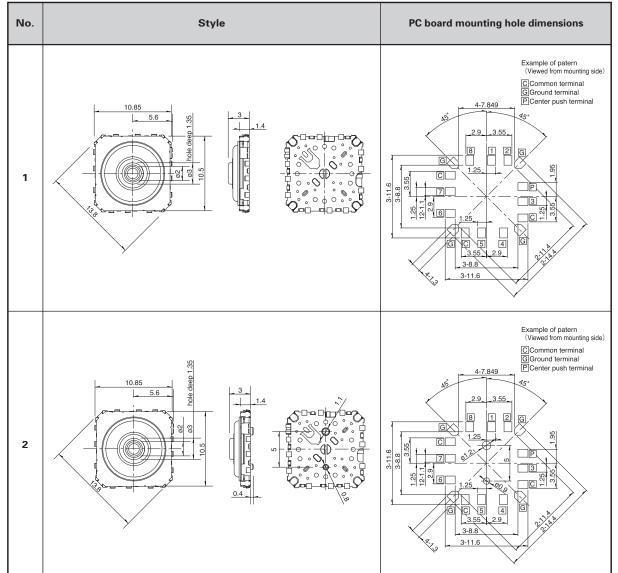
ltem	Specifications
Slide operating force	0.5 ^{+0.5} _{-0.25} N
Slide ON travel (mm)	0.65±0.25
Push operating force	2.5 ^{+0.7} _{-0.5} N
Push ON travel (mm)	0.2±0.1
Rating (max.) (Resistive load)	20mA 5V DC
Operating life	500,000cycles

Product Line

Location Lug	Location Lug Minimun packing unit (pcs.)		Drawing No.
Without	1,200	SSAF120100	1
With	1,200	SSAF220100	2



Unit:mm



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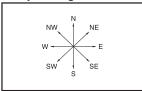
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Operating direction



Output code

		Operating direction									
		N	NE	Е	SE	S	SW	W	NW	Push	
	1	0									
	2		0								
	3			0							
Out put	4				0						
Out put	5					0					
	6						0				
	7							0			
	8								0		
	Р									0	

Product Specifications

	Itama		SKQU		0045	0555		011 D5 W	0110							
	Operating te rang Ratin (max.) (Resis Py Electrical performance ers In re In re In re In performance In re	Items	}	SKQUAA, SKQUBA	SKQUCA, SKQUDB	SSAF	SRBE	SLLB ※	SLLB5 ※	SLLQ						
Detector	Operati	ng tem range	perature	–30°C to	+85℃		–10°C to	0 +60℃		–40°C to +85°C						
Push	(max.)	Rating (Resisti		50mA	12V DC	20mA 5V DC	1mA 5V DC		10mA 5V DC							
Slide			ıtput Itage				1V max. at 1mA 5V DO (Resistive									
Rotary			ctional	4-dire	ection	9-direction										
Encoders	resolution Insulation resistance		100MS	Ω min. / DC	10MΩ min. 50MΩ min. 100M		100MΩ min. 100V DC									
Power			Itage roof	250\	/ AC ninute	100V AC for 1minute	50V AC for 1minute		100V AC for 1minute							
Dual-in-line Package Type Multi Control Devices		ope		1.57 ^{+0.49} _{-0.59N}	1.57 ^{+0.39} _{-0.69N}	8-direction 0.5N ^{+0.5} _{-0.35} N		0.65∃	±0.3N	1±0.5N						
TACT Switch™	Devices force	2.5 ^{+0.7} _{-0.5} N	3.5±1.5N	2±1N	2.5±1N	1.6±1N 2.6±1N										
							3±2mN∙m									
				29.4N for 1minute	49N for 1minute											
		s P	Pushing direction			50N				30N						
		strength	Operating direction			50N			I							
Variable Resistor Type			Manual soldering		0°C max. 350±10°C s max. 4 %s 350±5°C 3s max		3s max.									
Switch				Solder heat resistance		260°C max. 5s max.										
Type			Reflow soldering													
		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 2 hours respectively											
		Direction	Directional			500,000cycles										
	Endurance	Endurance	Endurance	Endurance	Endurance		Endurance	Operating life	push	50,000 cycles	100,000 cycles	500,000cycles	100,000cycles			
			Encorder													
			nting life out load					100,000cycles	100.00	Ocycles						
		Operating	life with load	l				.00,000000000	100,000	23,0100						

Notes

Environmental test Operating life with load (at rated load)

Cold

Dry heat

Damp heat

1. Shall be in accordance with individual specifications.

–30±2°C for 96h

80±2°C for 96h

60±2°C, 90 to 95%RH for 96h

2. **The operating temperature range for automotive applications can be raised upon request. Please contact us for requirements of this kind.

-40±2°C for 96h

–40±2℃

for 96h

–20±2°C for 96h

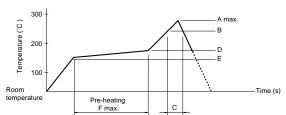
85±2°C for 96h

 $40\pm2^{\circ}$ C, 90 to 95%RH for 96h

Soldering Conditions

Example of Reflow Soldering Condition

- 1. Heating method: Double heating method with infrared heater.
- 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.
- 3. Temperature profile



Series (Reflow type)	A() 3s max.	B()	C(s)	D()	E()	F(s)	
SLLB, SLLB5, SLLQ	240	230	20	150	150	120	
RKJXS/SKRV/SKRH/SKQUBA,DB/SSAF/SRBE	260	230	40	180	150	120	

Notes

- 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.
- Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

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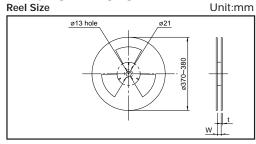
Variable

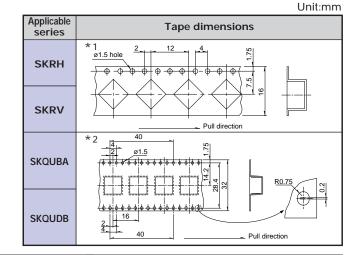
Resistor Type

Switch Type

Taping Specifications

Taping Packaging





Carino	Nυ	ımber of packages(pcs.)	Reel width	Reel thickness	Tape width	Tape dimensions
Series	1 reel	1 case (shipment within Japan)	1 case (shipment outside of Japan)	W(mm)	t(mm)	(mm)	
SSAF	1,200	2,400	2,400	24.4	2	24	
SRBE	1,300	2,600	5,200	25.4	2	24	
SLLB	1,350	2,700	5,400	24.4	3	24	
SLLB5	1,500	3,000	6,000	24.4	3	24	
SLLQ11	900	1,800	3,600	24.4	3	24	
SLLQ12	1,400	2,800	5,600	24.4	3	24	
RKJXS	950	3,800	3,800	25.5	1.6 to 2	24	
SKRV	1,500	12,000	12,000	17.5	2	16	*1
SKRH	1,300	10,400	10,400	17.5	2	16	" 1
SKQUBA	750	3,000	3,000	33.5	2	32	* 2
SKQUDB	600	2,400	2,400	33.5	2	32	2

Note

Please place purchase orders for taping products per minimum package units (1 reel or 1 case).