Slide Operation Type Stick Switch with 8-contact and Center-push Function

SSAF Series



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

8-contact Free-direction Center-Push
NEW

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

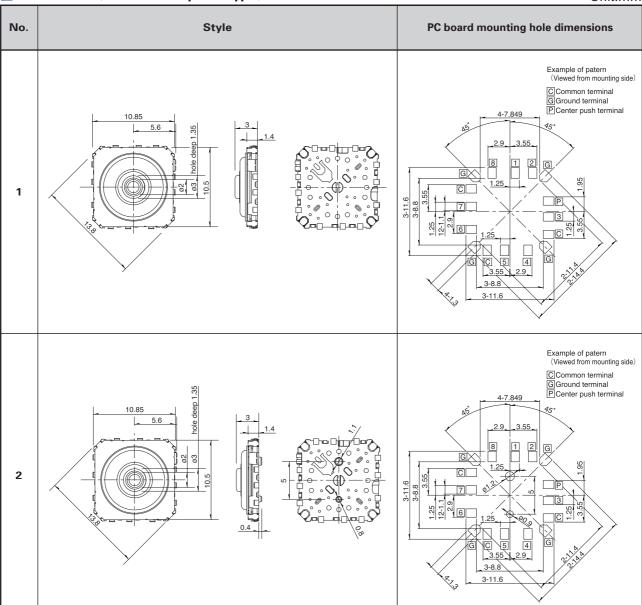
Item	Specifications
Slide operating force	0.5 ^{+0.5} _{-0.25} N
Slide ON travel (mm)	0.65±0.25
Push operating force	2.5 ^{+0.7} _{-0.5} N
Push ON travel (mm)	0.2±0.1
Rating (max.) (Resistive load)	20mA 5V DC
Operating life	500,000cycles

Product Line

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

■ Dimensions (With Center-push Type)

Unit:mm



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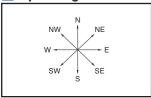
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Variable Resistor Type

Switch Type

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

Detector

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Devices

TACT SwitchTM

CustomProducts

Variable Resistor Type Switch Type

Product Specifications

Items		SK	QU	2245	oppr.			0110				
	iteilis		SKQUAA, SKQUBA	SKQUCA, SKQUDB	SSAF	SRBE	SLLB ※	SLLB5 ※	SLLQ			
Operati	Operating temperature range			+85°C		–10℃ to +60℃						
(max.)	Rating (Resisti	ve load)	50mA	12V DC	20mA 5V DC	1mA 5V DC		10mA 5V DC				
		ıtput Itage				1V max. at 1mA 5V DC (Resistive load) Measuring 5 5KΩ deasuring terminal						
Electrical performance		ctional olution	4-dire	ection	9-direction	9-direction ———						
		llation stance		Ω min. / DC	10MΩ min. 100V DC	50MΩ min. 50V DC	100MΩ min. 100V DC					
		ltage roof		/ AC ninute	100V AC for 1minute	50V AC for 1minute		100V AC for 1minute				
	ope	ctional rating orce	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			
		perating orce	_	3.14± 0.59N	$2.5^{+0.7}_{-0.5}~{ m N}$	3.5±1.5N	2±1N	2.5±1N	1.6±1N 2.6±1N			
	Encoder detent torque					3±2mN∙m						
Mechanical characteris-			29.4N for 1minute	49N for 1minute	——— 3N for 1minute							
tics	Actuator	Pushing direction			50N 30N							
	strength	Operating direction			50N							
		Manual soldering		max. nax.	350±10℃ 4 ⁺ ₀s 350±5℃ 3s max.							
	Solder heat resistance	Dip soldering		max. nax.								
	· ooroturio	Reflow soldering		Please see P.311								
	Vib	ration		1	0 to 55 to 10Hz/m in the 3 dir							
Endurance	Operating life	Directional Center push	50,000 cycles	100,000 cycles	500,000cycles							
		Encorder	1	-		100,000cycles						
		ting life out load		1	I		400.000					
		ng life with load rated load)					100,000cycles	100,00	Ocycles			
	С	old	-30±2℃	for 96h	-40±2℃	for 96h	Cfor 96h	–40±2℃ for 96h				
Environ- mental test	Dry	/ heat	80±2℃	for 96h			85±2℃ for 96h					
1001	Dam	p heat		C, 90 to for 96h		40±2	℃, 90 to 95%RH f	or 96h				

Notes

- 1. Shall be in accordance with individual specifications.
- 2. *The operating temperature range for automotive applications can be raised upon request. Please contact us for requirements of this kind.

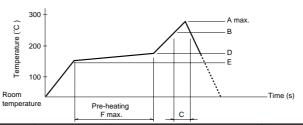
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Soldering Conditions

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	130	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.
- 2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

Rotary

Detector

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Encoders

Power

Dual-in-line

Package Type
Multi Control

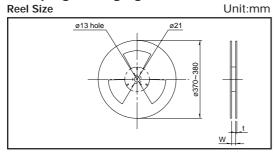
Devices

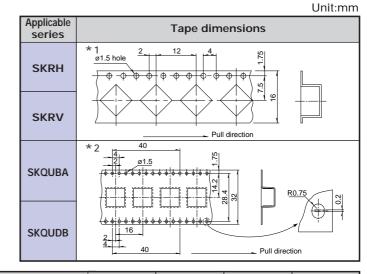
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Taping Specifications

Taping Packaging





Series	Nu	ımber of packages(pcs.)	Reel width	Reel thickness	Tape width	Tape
Series	1 reel	1 case (shipment within Japan)	1 case (shipment outside of Japan)	W(mm)	t(mm)	(mm)	dimensions
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	~ [
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).

Switch Type

Resistor Type

Variable