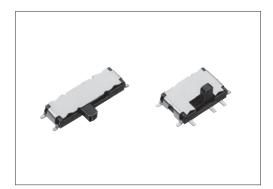
A low-profile slide switch with 1.4mm thickness





Typical Specifications

Ite	ms	Specifications		
Rating (max.)/(mi (Resistive load)	n.)	0.3A 5V DC / 50 µA 3V DC		
Contact resistand (Initial performand	-	70 m Ω max. / 130 m Ω max.		
Operating force		Refer to the dimensions.		
Without load		10,000 cycles 100mΩ max.		
Operating life	With load	10,000 cycles 130mΩ max. (0.3A 5V DC)		

Product Line

Travel	Actuator	Actuator	Poles	Positions	Changeover	Ground	Soldering	Minimum order unit (pcs.)		Products No.	Drawing
(mm)	direction	thickness (mm)			timing	terminal		Japan	Export		No.
				2		Without				SSSS820101	1
	Vertical	t0.8	2	3			Reflow	1,800	7,200	SSSS820301	2
		10.0	٤	2	Not specified	With Without				SSSS820201	1
1.5				3						SSSS820501	2
1.0		Horizontal t1.1		2				4,500	18,000	SSSS810701	3
				3						SSSS811501	4
	Horizontal		1	2						SSSS811101	3
				3		With				SSSS812201	4
2				2						SSSS810201	5

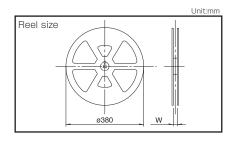
Note

Please contact us for automotive use products.

Packing Specifications

Taping

Product No.		r of package:		Reel width	Tape width	Export package measurements (mm)
	1 reel	1 case /Japan	1 case /export packing	W (mm)	(mm)	measurements (mm)
SSSS820101 SSSS820301 SSSS820201 SSSS820501	1,800	3,600	7,200	25.4	24	406×406×190
SSSS810701 SSSS811501 SSSS811101 SSSS812201 SSSS810201	4,500	9,000	18,000	17.4	16	417×409×139



Dimensions

Vertical Actuator Type/Horizontal Actuator Type 1.5mm-travel

Unit:mm

No.	Photo	Style	PC board mounting hole and land dimensions
	2-pole, 2-position		(Viewed from direction A)
1	2-poie, 2-position	Terminal No.① 0.4 3 1.5 0.75 With ground terminal dimensions With ground terminal dimensions With ground terminal dimensions With ground terminal dimensions	2-e0.9 hole 0.75 0.7 6-pattern section 0.75 0.7
2	2-pole, 3-position	Terminal No. $\stackrel{1}{0}$ $$	2-ø0.9 hole 1.5 3 1.5 8-pattern section 0.7
3	1-pole, 2-position	Terminal No.① 0.4 0.75 With ground terminal dimensions 0.4 0.75 With ground terminal dimensions 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9	3 1.5 0.75 0.75 3-pattern section 0.7 3-patt
	1-pole, 3-position	Terminal No.① 1.5 3 1.5 With ground terminal dimensions	
4		Operating force: $a \rightarrow b$ $\}$ 1.5N $b \rightarrow a$ $\}$ 2N $b \rightarrow c$	2-ø0.9 hole 1.5 3 1.5 0.7 4-pattern section 9.3 1.5 0.7 4-pattern section 4-pattern section for ground terminal

Note

Products not marked with * in the drawing have no ground terminal.

Dimensions

Horizontal Actuator Type 2mm-travel

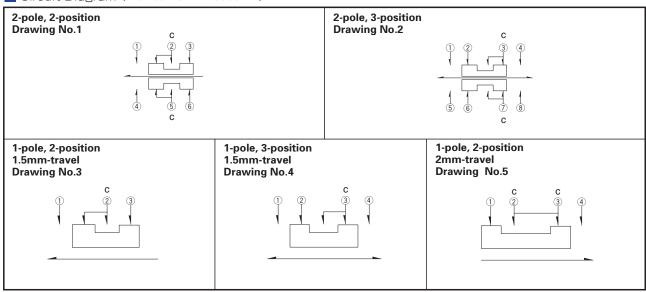
Unit:mm

No.	Photo	Style	PC board mounting hole and land dimensions (Viewed from direction A)
5	1-pole, 2-position	Terminal No. ① 1.5 3 1.5 0.4 *** *** *** ** ** ** ** ** *	2-ø0.9 holes 1.5 3 1.5 0.7 4-pattern section

Note

Products not marked with * in the drawing have no ground terminal.

■ Circuit Diagram (Viewed from Direction A)



	Series		SSAJ	SSAH	SSSS8*	SSAL	SSAG	SSSS7	
Photo		Sept.							
Actuat		Horizontal	•	•	•	•	•	•	
directi	on	Vertical	_	_	•	_	_	_	
		1-2	•	_	•	•	_	•	
	_	1-3	_	•	•	_	•	•	
		1-4	_	_	_	_	_	_	
Poles-pos	itions	2-2	_	_	•	_	_	_	
		2-3	_	_	•	_	_	_	
		2-4	_	_	_	_	_	_	
		4-2	_	_	_	_	_	_	
Т	ravel (mm)		1.4	1.5	1.5, 2	2	1.5	2	
Operating	temperati	ure range	-10℃ to +60℃	-30℃ to +60℃	-40℃ to +85℃	-10°C te	C000+ c	-40℃ to +85℃	
Aut	omotive u	se	_	_	_	_	_	_	
Life cycle			* 3	* 2	* 3	*3	*3	* 3	
	ating (max. sistive loa		10mA 5V DC	1mA 5V DC	0.3A 5V DC	10mA	5V DC	0.3A 4V DC	
	ating (min.) sistive loa				50 <i>μ</i> Α	3V DC			
Durability	Opera witho	nting life out load	10,000 cycles	10,000 cycles	10,000 cycles 100mΩ max.	100,000 cycles	30,000 cycles (Lock side) 100,000 cycles	10,000 cycles 100mΩ max.	
		ng life with d: as rating	500mΩ max.	300mΩ max.	10,000 cycles 130mΩ max.	10Ω max.	(Recoil side) 500mΩ max.	10,000 cycles 130mΩ max.	
		contact stance	300mΩ max.	200mΩ max.	70mΩ max.	10Ω max.	200mΩ max.	70mΩ max.	
Electrical performance	Insulation	resistance		10	DOMΩ min. 100V E	OC .		100MΩ min. 500V DC	
	Voltag	ge proof		1	OOV AC for 1minut	e		500V AC for 1minute	
	Termina	l strength			3N for	lminute			
Mechanical performance	Actuator	Operating direction	10N						
strength Pulling direction									
	С	Cold	-40°	C 96h	-40℃ 500h	-40°C	2 96h	-20℃ 500h	
Environmental performance	Dry	heat	85°C	96h	85℃ 500h	85℃	96h	85℃ 500h	
	Dam	p heat	40°C, 90 to 95%RH 96h	60°C, 90 to 95%RH 240h	60°C, 90 to 95%RH 500h		to 95%RH 6h	60°C, 90 to 95%RH 500h	
	Page		75	77	79	82	84	87	

Notes

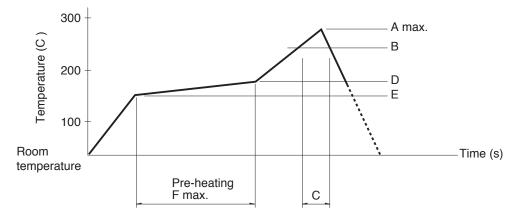
- 1. * The operating temperature range for automotive applications can be raised upon request. Please contact us for details.
- 2. Indicates applicability to all products in the series.

Example of Reflow Soldering Condition

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 CA (K) or CC (T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.

Slide Switches Soldering Conditions

3. Temperature profile



Series (Reflow type)		A (℃) 3s max.	B (℃)	C (s)	D (°C)	E (℃)	F(s)	
	Vertical	1-pole, 3-position						
SSSS2	Horizontal	1-pole, 2-position 1-pole, 3-position 2-pole, 3-position	260	230	40	180	150	100
Vertical	1-pole, 2-position	250	230	40	100	150	120	
SSSS7		250						
SSAH, SSAG, SSAJ, SSAL, SSSS8		260						

Notes

- 1. The condition mentioned above is the temperature 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 PC board's material, size, thickness, etc. 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.

Reference for Hand Soldering

Series	Soldering temperature	Soldering time		
SSSF, SSSU	350±10°C	3+1/0s		
SSSS2	350±10°C	4s max.		
SSSS9	350±10°C	3s max.		
SSAH, SSAG, SSAJ, SSAL	350±5℃	3s max.		
SSSS8	330±5℃	3s max.		
SSSS7	320±5℃	3s max.		
SSAC	300±10°C	2s max.		

Reference for Dip Soldering (For PC board terminal types)

Series	Ite	ms	Dip soldering		
Jenes	Preheating temperature	Preheating time	Soldering temperature	Duration of immersion	
SSSS2	100°C max.	60s max.	260±5℃	3±1s	
SSSS9	120°C max.	60s max.	260±5℃	5+0/-1s (2 times)	
SSSF, SSSU	100°C max.	60s max.	260±5℃	10±1s/5±1s	
SSAC	100°C max.	60s max.	260±5℃	5±1s	

