

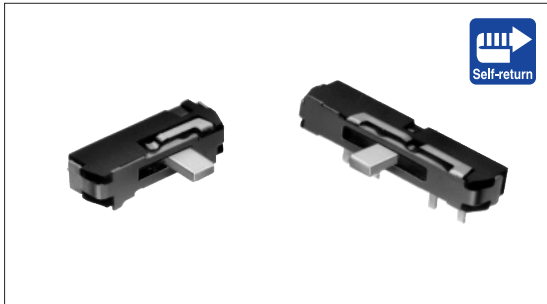
Slide Switch 2(H)mm, 1.5/2mm-travel Type

SSSS7 Series



Compact general purpose type with self-return option.

- Detector
- Push
- Slide
- Rotary
- Encoders
- Power
- Dual-in-line Package Type
- TACT Switch™
- Custom-Products
- Small size General Use type
- Big size General Use type
- Other Use type



Typical Specifications

Items		Specifications
Rating (max.) / (min.) (Resistive load)		0.3A 4V DC/50μA 3V DC
Contact resistance (Initial performance/After lifetime)		70mΩ max./130mΩ max.
Operating force		Refer to the dimensions.
Operating life	Without load	10,000cycles
	With load	10,000cycles (0.3A 4V DC)

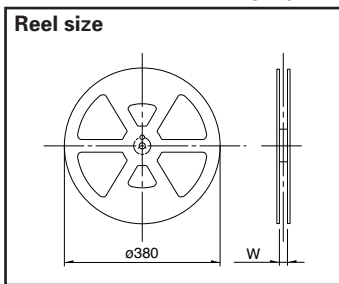
Product Line

Travel (mm)	Actuator direction	Actuator length (mm)	Poles	Positions	Changeover timing	Soldering	Operation	Minimum order unit (pcs.)	Products No.	Drawing No.
2	Horizontal	2	1	2	Not specified	Manual	Standard	5,000	SSSS710100	1
						Reflow		8,000	SSSS710607	2
				3	Non shorting	Manual		40,000	SSSS711100	4
						Reflow		Single-side recoil	8,000	SSSS711403
				2	Not specified		Double-side recoil		8,000	SSSS7A0101
						19,200		SSSS7A0202	7	
1.5		0.9						SSSS7B0101	3	
								1.5	SSSS7C0101	8
								SSSS7C0201		

Packing Specifications

Taping

Unit:mm



Series	Number of packages (pcs.)			Reel width W (mm)	Tape width (mm)	Export package measurements (mm)
	1 reel	1 case / Japan	1 case / export packing			
SSSS710607	2,000	4,000	8,000	17.4	16	417 × 409 × 139
SSSS711403						406 × 406 × 190
SSSS7A, SSSS7B				25.4	24	406 × 406 × 190
SSSS7C	4,800	9,600	19,200			428 × 413 × 172

Bulk

Series	Number of packages (pcs.)		Export package measurements (mm)
	1 case / Japan	1 case / export packing	
SSSS710100	10,000	50,000	400 × 270 × 290
SSSS711100	8,000	40,000	

Notes

1. Products other than those listed in the above chart are also available. Please contact us for details.
2. Please contact us for automotive use products.
3. Please place purchase orders per minimum order unit N (integer).



Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from the direction A)
1		<p>Operating force with detent : 1.5N</p>	
2		<p>Operating force with detent : 1.5N</p>	
3		<p>Operating force with detent : $b \rightarrow a, b \rightarrow c$ 2N</p>	
4		<p>Operating force with detent : $a \rightarrow b, c \rightarrow b$ 1.75N $b \rightarrow a, b \rightarrow c$ 2.5N</p>	
5		<p>Operating force with detent : $a \rightarrow b, c \rightarrow b$ 1.75N $b \rightarrow a, b \rightarrow c$ 2.5N</p>	

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

Small size
General Use type


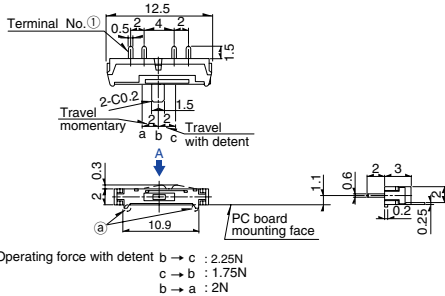
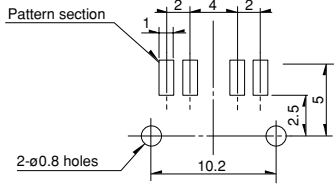

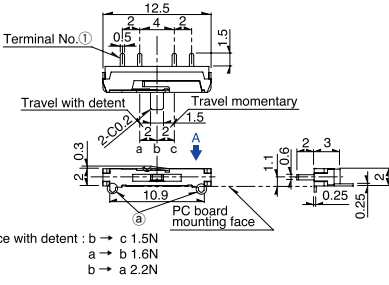
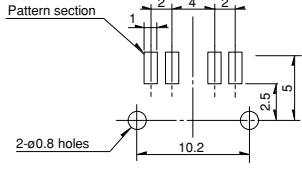

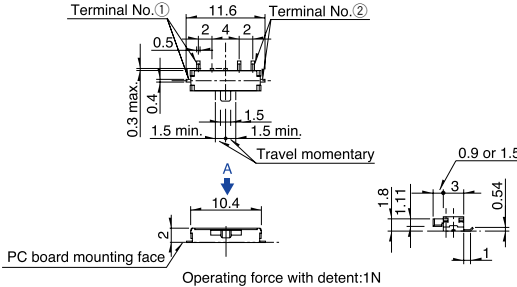
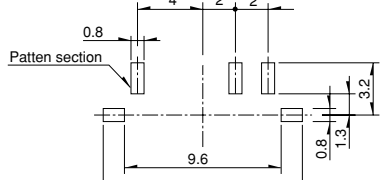
Big size
General Use type

Other Use type

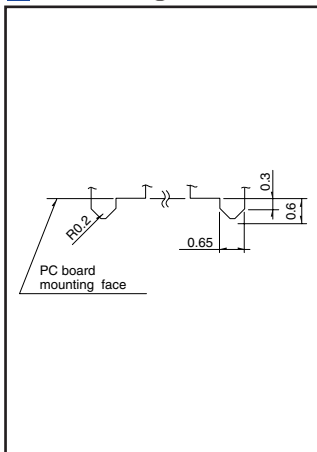
Slide Switch 2(H)mm, 1.5/2mm-travel Type | SSSS7 Series

Dimensions

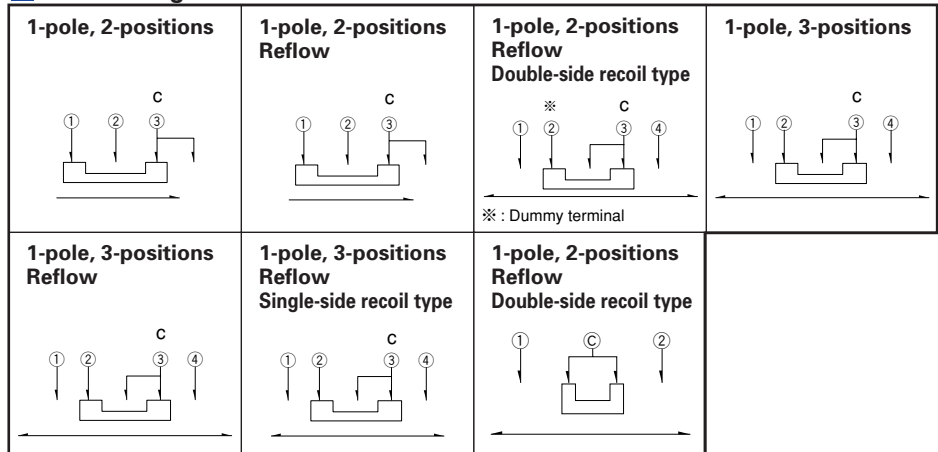
Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from the direction A)
6		1-pole, 3-positions Reflow Single-side recoil type  <p>Operating force with detent : b → c : 2.25N c → b : 1.75N b → a : 2N</p>	
7		 <p>Operating force with detent : b → c : 1.5N a → b : 1.6N b → a : 2.2N</p>	
8		 <p>Operating force with detent: 1N</p>	







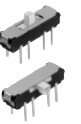

Detail of (a) Unit:mm



Circuit Diagram (Viewed from Direction A)



List of Varieties

Series		SSAJ	SSAG	SSAH	SSAD	SSSS8	SSSS7 ※	SSSS2	SSSS9 ※	
Photo										
Outline specifications	Travel (mm)	1.4	1.5			1.5 2		2		
	Actuator direction	Horizontal				Vertical Horizontal	Horizontal	Vertical Horizontal		
	Number of poles	1				1 2				
Dimensions (mm)	W	5.5	9.05	9.5	6.7	11.2	8.8	13	14	
	D	2.5	3		3.2	2.6	3	3.5	4.7	
	H	0.7	1.15	0.9	0.7	1.4	2		5	
Operating temperature range		-10°C to +60°C		-30°C to +60°C	-40°C to +85°C	-40°C to +85°C			-10°C to +60°C	
Rating (max.) / (min.) (Resistive load)		10mA 5V DC		1mA 5V DC		0.3A 5V DC	0.3A 4V DC	0.3A 6V DC	0.1A 12V DC	
		50μA 3V DC								
Electrical performance	Initial contact resistance	300mΩ max.	200mΩ max.		100mΩ max.	70mΩ max.			30mΩ max.	
	Insulation resistance	100MΩ min. 100V DC					100MΩ min. 500V DC			
	Voltage proof	100V AC for 1minute					500V AC for 1minute			
Mechanical performance	Terminal strength		3N for 1minute							
	Actuator strength	Operating direction	10N		5N	10N		20N	30N	
		Pulling direction						10N Static force		10N
Durability	Operating life without load	10,000cycles 500mΩ max.	100,000cycles 500mΩ max.	10,000cycles 300mΩ max.	10,000cycles 100mΩ max. ※2				10,000cycles 60mΩ max.	
	Operating life without load Load:as rating				10,000cycles 200mΩ max.				10,000cycles 80mΩ max.	
Environmental performance	Cold	-40±2°C for 96h	-20±2°C for 96h			-40°C for 96h	-20°C for 96h			
	Dry heat	85±2°C for 96h								
	Damp heat	40±2°C, 90~95%RH for 96h								
Soldering	Manual soldering	350±5°C 3s max.			300±5°C 5s max.		300±5°C 3s max.	350±10°C 4s max.	300±10°C 5s max.	
	Dip soldering							260±5°C 3±1s	260±5°C 5 ⁹ s (2回)	
	Reflow soldering	Please see P.182								
Poles-positions	1-2	●	—	—	●	●	●	●	●	
	1-3	—	●	●	—	●	●	●	●	
	1-4	—				●	—	●	—	
	2-2	—				●	—	●	●	
	2-3	—				●	—	●	●	
	2-4	—						●	—	
	4-2	—								
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Note

※The operating temperature range for automotive applications can be raised upon request. Please contact us for details.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

Small size
General Use type

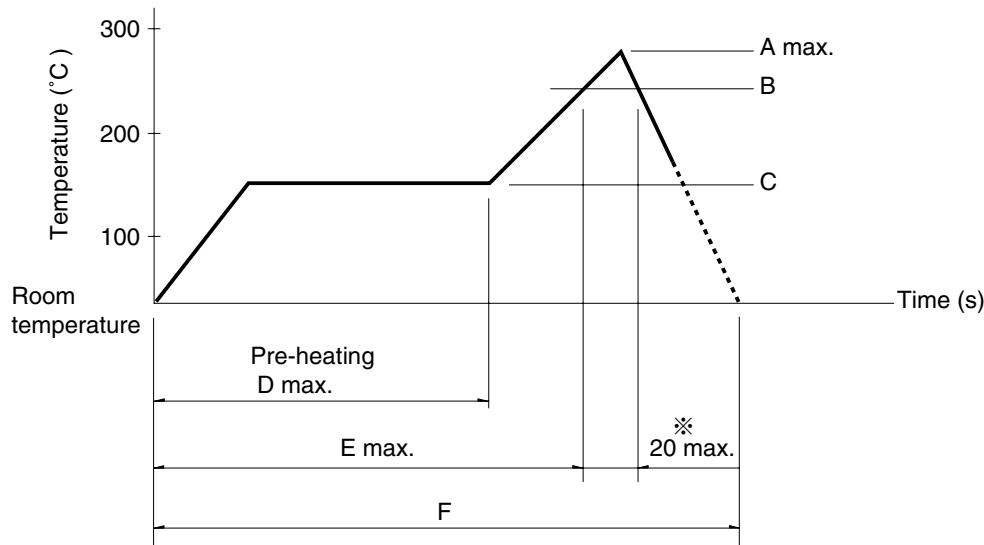
Big size
General Use type

Other Use type

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 φ CA (K) or CC (T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.
3. Temperature profile



Detector

Push

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General Use type

Big size
General Use type

Other Use type

Series (Reflow type)			A (°C) 3s max.	B (°C)	C (°C)	D (s)	E (s)	F (s)
SSSS2	Vertical	1-pole, 3-positions	250	200	150	120	—	—
	Horizontal	1-pole, 2-positions						
	Vertical	1-pole, 2-positions	240					
	Horizontal	1-pole, 3-positions 2-poles, 3-positions						
SSSS7			250					
SSAH, SSAG			260	230	150	120	—	—
SSAD			240	220				
SSSS8	Horizontal	1-pole, 2-positions 1-pole, 3-positions (1.5mm)	255	200				
		1-pole, 3-positions (2mm) 1-pole, 4-positions 2-poles, 2-positions	240	220				
	Vertical							

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.
2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.
3. ※SSAH and SSAG only 40's.