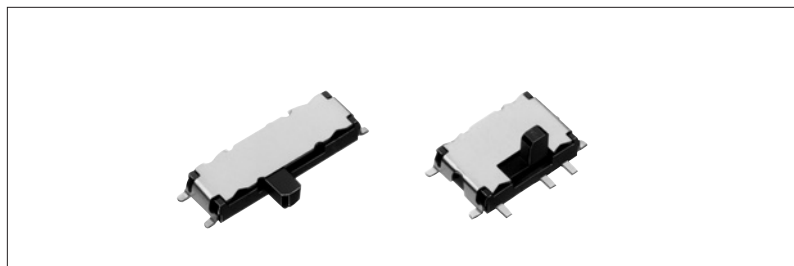


1.4(H)mm, 1.5/2mm-travel Surface Mount Type Slide Switch

SSSS8 Series

1.4mm-high low-profile type with travels of 1.5mm and 2mm.



Lead Free



Car Use

Features

- Travel lengths of 1.5mm and 2mm are available.
- Low-profile type-only 1.4mm in height.
- All models are reflow solderable.

Applications

- For selecting modes of Digital Camcorder and Digital Still Camera.
- For keylocking mobile phones.
- For switching modes of headphone stereos, LCD TVs, silicon audio systems, portable CD/MD players, IC recorders and VCR/cameras.
- For switching function modes of information communication devices including PCs, Personal Digital Assistant, and memory cards.
- For switching modes of electronic instruments (e.g., mixers), health appliances and electronic mosquito repellents.
- For switching modes of remote controllers.

Typical Specifications

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

Products Line

Travel (mm)	Operating section directions	Operating section thickness (mm)	Poles	Positions	Mounting method	Changeover timing	Ground terminal	Soldering	Products No.	Drawing No.				
1.5	Vertical	t0.8	2	2	—	Not specified	Without	Reflow	SSSS820101	1				
				3							SSSS820301	2		
				2									SSSS820201	1
				3										
	Horizontal	t0.4	1	4			SSSS812801		5					
				2						SSSS810701	3			
		t1.1	1	3								SSSS811501	4	
				2						SSSS821801	6			
	t0.4	1	4	SSSS812701			5							
			2						SSSS811101	3				
	t1.1	1	2	SSSS812201			4							
			3						SSSS822101	6				
2	Horizontal	t1.1	2	2	SSSS810201	7								
				1			SSSS810301	8						
				3										

Note

Additional switches not included in the above list are also available. Contact us for details.

For other detailed specifications, see P.142
For specifications for the taping package, see P.145

Power

Push

Slide

Rotary

Encoders

Jog Shuttle

Telephone-hook

Detector

Vibration/Tilt Sensors

Dual-in-line Package Type

Multi Control Devices

TACT

Small size
General Use type

Big size
General Use type

Other Use type

Dimensions

Vertical Operating Section Type 1.5mm-travel

Unit : mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
1	<p>2-poles, 2-positions</p> <p>Terminal No.① 0.4 3 1.5 0.75 With ground terminal dimensions</p> <p>Travel 1.5</p> <p>Operating force : 2±1.5N</p>	<p>2-ø0.9^{+0.05} hole 3 1.5 6-Pattern section 0.75 0.7</p> <p>4-Pattern section for ground terminal</p>
2	<p>2-poles, 3-positions</p> <p>Terminal No.① 1.5 3 1.5 0.4 With ground terminal dimensions</p> <p>Travel 1.5</p> <p>Operating force : a → b, c → b } 2±1.5N b → a, b → c } 2.5±1.5N</p>	<p>2-ø0.9^{+0.05} hole 1.5 3 1.5 8-Pattern section 0.7</p> <p>4-Pattern section for ground terminal</p>

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

Circuit Diagram (Viewed from the Direction A)

<p>2-poles, 2-positions</p>	<p>2-poles, 3-positions</p>
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Power

Push

Slide

Rotary

Encoders

Jog Shuttle

Telephone-hook

Detector

Vibration/Tilt Sensors

Dual-in-line Package Type

Multi Control Devices

TACT

Small size General Use type

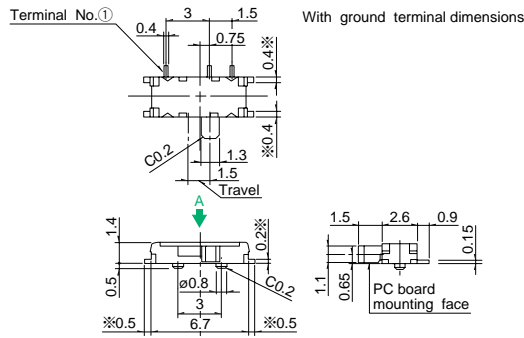
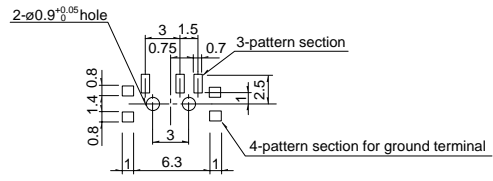
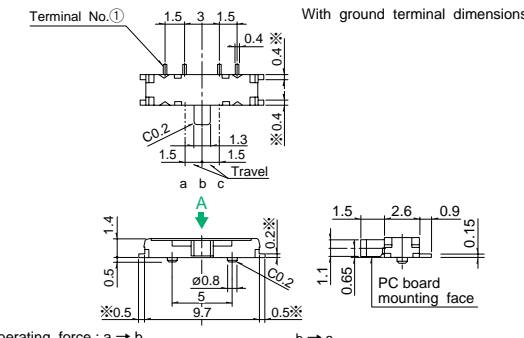
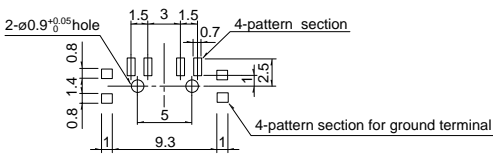
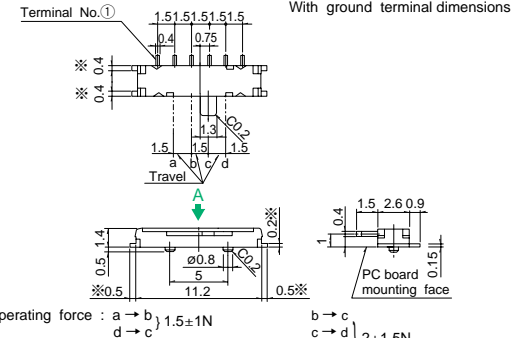
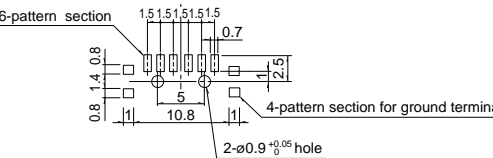
Big size General Use type

Other Use type

Dimensions

Horizontal Operating Section Type 1.5mm-travel

Unit : mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
3	<p>1-pole, 2-positions</p>  <p>Terminal No.①</p> <p>With ground terminal dimensions</p> <p>Operating force : 1.5±1N</p>	 <p>2-ø0.9^{+0.05} hole</p> <p>3-pattern section</p> <p>4-pattern section for ground terminal</p>
4	<p>1-pole, 3-positions</p>  <p>Terminal No.①</p> <p>With ground terminal dimensions</p> <p>Operating force : a → b } 1.5±1N b → a } 2±1.5N c → b } 1.5±1N b → c } 2±1.5N</p>	 <p>2-ø0.9^{+0.05} hole</p> <p>4-pattern section</p> <p>4-pattern section for ground terminal</p>
5	<p>1-pole, 4-positions</p>  <p>Terminal No.①</p> <p>With ground terminal dimensions</p> <p>Operating force : a → b } 1.5±1N d → c } 1.5±1N b → c } 2±1.5N c → d } 2±1.5N c → b } 2±1.5N b → a } 2±1.5N</p>	 <p>6-pattern section</p> <p>4-pattern section for ground terminal</p> <p>2-ø0.9^{+0.05} hole</p>

Note

Products not marked with ※ in the drawing are of without ground terminal type.

Dimensions

Horizontal Operating Section Type 1.5mm-travel

Unit : mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
6	<p>2-poles, 2-positions</p> <p>Terminal No. ①</p> <p>With ground terminal dimensions</p> <p>Operating force : 1.5±1N</p>	<p>6-pattern section</p> <p>4-pattern section for ground terminal</p> <p>2-ø0.9^{0.05}hole</p>

Horizontal Operating Section Type 2mm-travel

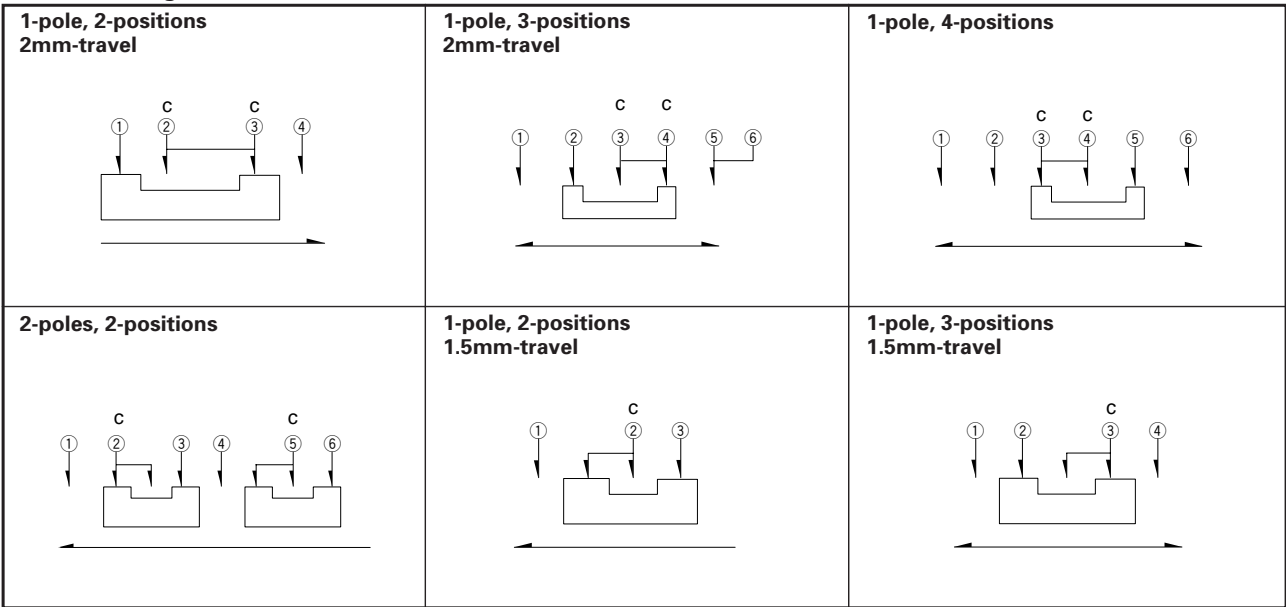
Unit : mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
7	<p>1-pole, 2-positions</p> <p>Terminal No. ①</p> <p>With ground terminal dimensions</p> <p>Operating force : 1.5±1N</p>	<p>2-ø0.9^{0.05}hole</p> <p>4-pattern section</p> <p>4-pattern section for ground terminal</p>
8	<p>1-pole, 3-positions</p> <p>Terminal No. ①</p> <p>With ground terminal dimensions</p> <p>Operating force : a → b } 1.5±1N c → b } 1.5±1N b → a } 2±1.5N b → c } 2±1.5N</p>	<p>6-pattern section</p> <p>4-pattern section for ground terminal</p> <p>2-ø0.9^{0.05}hole</p>

Note

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

Circuit Diagram (Viewed from the Direction A)



Power

Push

Slide

Rotary

Encoders

Jog Shuttle

Telephone-hook

Detector

Vibration/Tilt Sensors

Dual-in-line Package Type

Multi Control Devices

TACT

Small size
General Use type

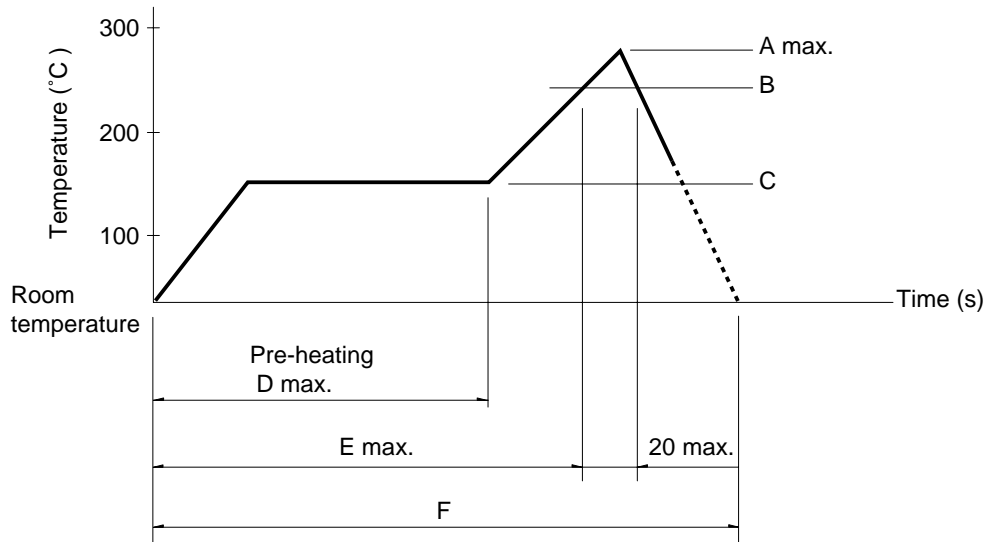
Big size
General Use type

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



Series (Reflow type)	A (°C) 3s max.	B (°C)	C (°C)	D (s)	E (s)	F (s)
SSSS2	250	200	150	120	_____	_____
SSSS7						
SSAD						
SSSS8	260	250				
SSST	250	200				

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. Care should be taken to prevent the switch's surface temperature from exceeding 260°C.
2. Soldering conditions differ depending on reflow soldering machines. You are requested to verify the soldering conditions thoroughly beforehand.

- Power
- Push
- Slide**
- Rotary
- Encoders
- Jog Shuttle
- Telephone-hook
- Detector
- Vibration/Tilt Sensors
- Dual-in-line Package Type
- Multi Control Devices
- TACT

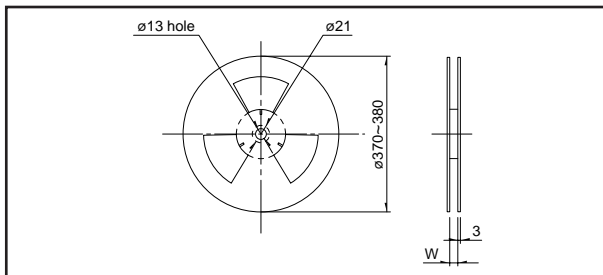
- Small size General Use type
- Big size General Use type
- Other Use type

Taping Specifications

Taping Packaging

Reel Size

Unit : mm



Series		Number of packages (pcs.)			Reel width W (mm)	Tape width (mm)	
		1 reel	1 case/domestic	1 case/export packing			
SSSS2		1,400	2,800	5,600	24.4	24	
SSSS7※		2,000	4,000	8,000	25.5		
SSSS8	Vertical	1,800	3,600	7,200	24.4	16	
	Horizontal	1-pole, 2-positions (1.5mm) 1-pole, 2-positions (2mm) 1-pole, 3-positions (1.5mm)	4,500	9,000	18,000		16.4
		1-pole, 3-positions (2mm)	4,500	9,000	18,000		24.4
		1-pole, 4-positions 2-poles, 2-positions	2,500	5,000	10,000		
SSST	Knob length	3mm	1,000	2,000	4,000	24	
		2mm	1,100	2,200	4,400		
SSAD		5,000	10,000	20,000	16.4	16	

Notes

- Order products in N minimum packing units (1 reel or 1 case).
- ※For the SSSS7 Series only, the reel is different from what is illustrated.

Power

Push

Slide

Rotary

Encoders

Jog Shuttle

Telephone-hook

Detector

Vibration/Tilt Sensors

Dual-in-line Package Type

Multi Control Devices

TACT

Small size
General Use typeBig size
General Use type

Other Use type