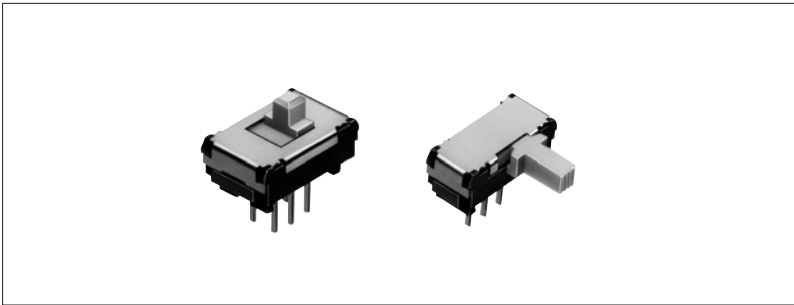


5(H)mm, 2mm-travel Type Slide Switch

SSSS9 Series

Medium general type famous for its high operability.

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



Car Use

Features

- 2mm-travel.

Applications

- AV devices, including DVD players, LCD TVs, headphone stereos, portable CD players, and VCR/cameras
- For the switching modes of memory cards
- For the switching modes of communication devices, including FAX machines and cordless telephones
- For the switching modes of air conditioners

Typical Specifications

Items		Specifications	
Rating (max.) (Resistive load)		0.1A 12V DC	
Contact resistance (Initial performance / After lifetime)		30mΩ max. / 80mΩ max.	
Operating force		2-positions	3-positions
		3±1.5N	a→b) 2±1N c→b) 2±1N b→a) 3±1.5N b→c) 3±1.5N
Operating life	Without load	10,000 cycles	
	With load	10,000 cycles (0.1A 12V DC)	

Products Line

Travel (mm)	Operating section directions	Length of operating section (mm)	Poles	Positions	Mounting method	Changeover timing	Soldering	Minimum packing unit (pcs.)	Products No.	Drawing No.	
2	Vertical	2	1	2	Standard	Non shorting	Manual, Dip	100	SSSS912000	1	
				2	Snap-in (t1.6)				SSSS910400	2	
			3	Standard	Not specified	SSSS919500			3		
				Snap-in (t1.6)		SSSS918500			4		
			2	2	Standard	Non shorting			SSSS922000	5	
				3		Not specified			SSSS921800	6	
		4	1	2	Standard	Non shorting			SSSS912500	1	
					Snap-in (t1.6)	Not specified			SSSS910800	2	
			3	Standard	Not specified	SSSS919800			3		
				Snap-in (t1.6)		SSSS918700			4		
			2	2	Standard	Non shorting			SSSS922500	5	
				3		Not specified			SSSS923200	6	
						Snap-in (t1.6)				SSSS920600	7

For other detailed specifications, see P.150

Products Line

Travel (mm)	Operating section directions	Length of operating section (mm)	Poles	Positions	Mounting method	Changeover timing	Soldering	Minimum packing unit(mm)	Products No.	Drawing No.	
2	Horizontal	2	1	2	Standard	Non shorting	Manual, Dip	100	SSSS916900	8	
					Snap-in (t1.6)				SSSS915000	9	
				3	Standard	Not specified			SSSS91B900	10	
			Snap-in (t1.6)		SSSS91A900				11		
			2	2	2	Standard			Non shorting	SSSS926400	12
									Not specified	SSSS928500	14
		3		2	Standard	Non shorting			SSSS916400	8	
		Not specified	SSSS914500			9					
		4	1	2	2	Snap-in (t1.6)			Non shorting	SSSS914500	9
									Not specified	SSSS91B600	10
									Not specified	SSSS91A600	11
			2	2	2	Standard			Non shorting	SSSS925800	12
									Not specified	SSSS923800	13
									Not specified	SSSS928200	14
			3	2	3	Standard			Non shorting	SSSS925700	15
Not specified											
Not specified											

Note

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

Dimensions

Vertical Operating Section Type

Unit : mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
1	<p>1-pole, 2-positions Standard type</p>	
2	<p>1-pole, 2-positions Snap-in type</p>	
3	<p>1-pole, 3-positions Standard type</p>	

For other detailed specifications, see P.150

Power

Push

Slide

Rotary

Encoders

Jog Shuttle

Telephone -hook

Detector

Vibration 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

Unit : mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
4	<p>1-pole, 3-positions Snap-in type</p>	
5	<p>2-poles, 2-positions Standard type</p>	
6	<p>2-poles, 3-positions Standard type</p>	
7	<p>2-poles, 3-positions Snap-in type</p>	

Power

Push

Slide

Rotary

Encoders

Jog Shuttle

Telephone-hook

Detector

Vibration Sensors

Dual-in-line Package Type

Multi Control Devices

TACT

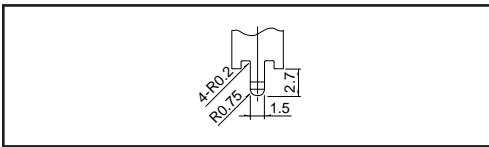
Small size General Use type

Big size General Use type

Other Use type

Detail of ①

Unit : mm



Circuit Diagram (Viewed from the Direction A)

<p>1-pole, 2-positions Standard type</p>	<p>1-pole, 2-positions Snap-in type</p>	<p>1-pole, 3-positions Standard type</p>	<p>1-pole, 3-positions Snap-in type</p>
<p>2-poles, 2-positions Standard type</p>	<p>2-poles, 2-positions Snap-in type</p>	<p>2-poles, 3-positions Standard type</p>	<p>2-poles, 3-positions Snap-in type</p>

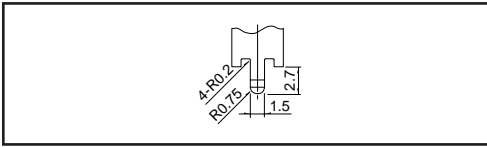
Dimensions

Horizontal Operating Section Type

Unit : mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
8	<p>1-pole, 2-positions Standard type</p>	
9	<p>1-pole, 2-positions Snap-in type</p>	
10	<p>1-pole, 3-positions Standard type</p>	

Detail of ① Unit : mm



Circuit Diagram (Viewed from the Direction A)

<p>1-pole, 2-positions Standard type</p>	<p>1-pole, 2-positions Snap-in type</p>	<p>1-pole, 3-positions Standard type</p>	<p>1-pole, 3-positions Snap-in type</p>
<p>2-poles, 2-positions Standard type</p>	<p>2-poles, 2-positions Snap-in type</p>	<p>2-poles, 3-positions Standard type</p>	<p>2-poles, 3-positions Snap-in type</p>

Power

Push

Slide

Rotary

Encoders

Jog Shuttle

Telephone -hook

Detector

Vibration Sensors

Dual-in-line Package Type

Multi Control Devices

TACT

Small size
General Use type

Big size
General Use type

Other Use type

Products Specifications

Items	Series		SSAD	SSSS8	SSSS7	SSSS2	SSSS9	SSSF	SSSU	
	Power	Operating temperature range		-10°C to +60°C						
Push	Rating (max.) (Resistive load)		1mA 5V DC	0.3A 4V DC		0.3A 6V DC	0.1A 12V DC	0.1A 30V DC		
Slide	Electrical performance	Initial contact resistance	100mΩ max.	70mΩ max.			30mΩ max.	25mΩ max.		
		Insulation resistance	100MΩ min. 100V DC		100MΩ min. 500V DC					
		Voltage proof	100V AC for 1 min.		500V AC for 1 min.					
Rotary	Mechanical performance	Robustness of terminal	3N for 1 min.				5N for 1 min.			
Jog Shuttle		Robustness of actuator	Operating direction	5N	10N	20N	30N			
Telephone-hook			Pulling direction	5N	10N static force		10N	30N static force		
Detector	Mechanical performance	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							
Vibration Sensors		Solderability	230±5°C, 3±0.5s							
Dual-in-line Package Type		Resistance to soldering heat	Manual soldering	300±5°C 5s max.	260±5°C 3s max.	350±10°C 4s max.	300±10°C 5s max.	350±10°C 5s max.	350±10°C 3 ⁺¹ ₀ s	
Multi Control Devices			Dip soldering	—			※1 260±5°C 5 ₋₁ s			260±5°C 10±1s
TACT	Durability	Reflow soldering	Please see P.152				—			
		Operating life without load	※2 10,000 cycles 100mΩ max.				10,000 cycles 60mΩ max.	10,000 cycles 45mΩ max.		
		Operating life with load Load : As rating	10,000 cycles 200mΩ max.	※2 10,000 cycles 130mΩ max.			10,000 cycles 80mΩ max.	10,000 cycles 65mΩ max.		
Small size General Use type	Environmental performance	Cold	-20±2°C for 96h							
Big size General Use type		Dry heat	85±2°C for 96h							
Other Use type		Damp heat	40±2°C, 90 to 95%RH for 96h							

Note

- ※1 Horizontal type products in SSSS2 Series with 1 pole and 2 positions are not dip solderable.
- ※2 SSSS213202 only 100cycles.