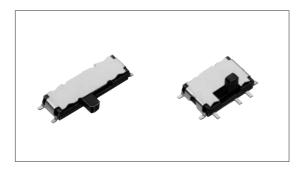




A low-profile slide switch whose main body thickness is 1.4mm.



Features

- Travel lengths of 1.5 mm and 2 mm are available.
- Reflow soldering available.

Applications

- For selecting modes of digital camcorders and digital cameras
- For keylocking mobile phones
- For switching modes of headphone stereos, LCD TVs, silicon audio systems, portable CD/MD players, IC recorders and camcorders
- For switching function modes of information communication devices including PCs, personal digital assistants, 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

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

Products Line

Travel (mm)	Operating section directions	Operating section thickness (mm)	Poles	Positions	Changeover timing	Ground terminal	Soldering	Minimum packing unit (pcs.)	Products No.	Drawing No.		
				2		Without			SSSS820101	1		
	Vertical	t0.8	2	3		vvitilout		1,800	SSSS820301	2		
	vertical	10.8		2		With			SSSS820201	1		
	1.5			3		VVICII			SSSS820501	2		
1.5		t1.1	1	2		Without		4,500	SSSS810701	3		
1.5			'	3	Not		Reflow		SSSS811501	4		
			2	2	specified		Itenov	2,500	SSSS821801	6		
	Horizontal	t 0.4		4				2,300	SSSS812701	5		
	2	t1.1	Officer	Ital		2					SSSS811101	3
			1	3		With		4,500	SSSS812201	4		
2			(1.1	(1.1	(1.1		2				4,500	SSSS810201
2				3					SSSS810301	8		

Note

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

Push

Slide

Detector

Rotary

-

Encoders

Power

Dual-in-line Package Type Multi Control

TACT Switch™

Devices

Custom-Products

Small size General Use type

Big size General Use type

Other Use type

For other specifications, see **P.149**For specifications for the taping package, see **P.152**

Dimensions

Vertical Operating Section Type 1.5mm-travel

Unit:mm

Detector Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

Multi Control Devices

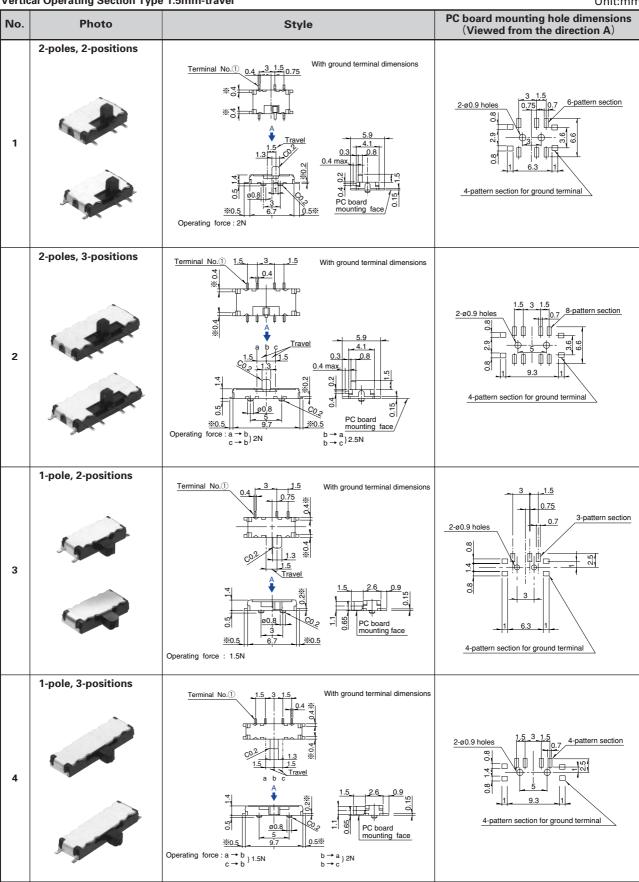
TACT Switch™

Custom-Products

Small size General Use type

General Use type

Other Use type



Note

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

Dimensions

Horizontal Operating Section Type 1.5mm-travel

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from the direction A)
5	1-pole, 4-positions	Terminal No.① 1.51.51.51.51.5 1.5	6-pattern section 1.5.1.5.1.5.1.5.1.5.1.5.1.5.1.5.1.5.1.5
6	2-poles, 2-positions	Terminal No.① 1.5 3.1.5 3.1.5 0.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	6-pattern section 1.5 3 1.5 3 1.5 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type Multi Control

Devices

TACT Switch™

Custom-**Products**

Small size General Use type

Big size

General Use type Other Use type

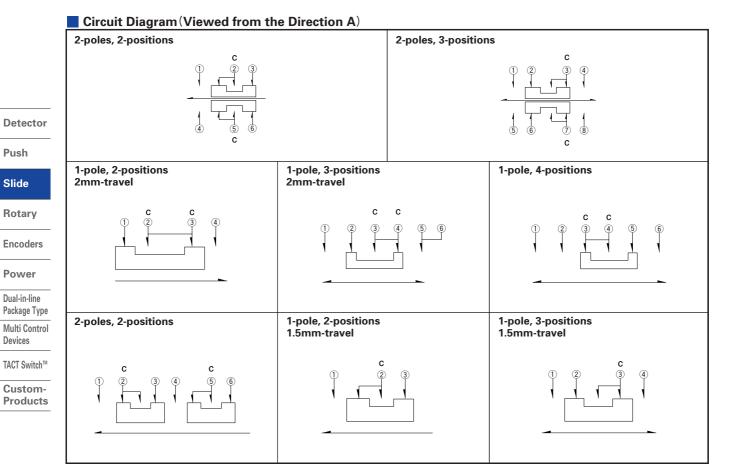
Horizontal Operating Section Type 2mm-travel

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from the direction A)
7	1-pole, 2-positions	Terminal No. ① 1.5 3 1.5 0.4 *** *** *** ** ** ** ** ** *	2-90.9 holes 1.5 3 1.5 0.7 4-pattern section 2-90.9 holes 5 1.5 3 1.5 0.7 4-pattern section 4-pattern section for ground terminal
8	1-pole, 3-positions	Terminal No. \bigcirc 1.51.51.51.51.5 \bigcirc 0.4 \bigcirc 0.75 \bigcirc \bigcirc 1.51.51.51.5 \bigcirc 0.5 \bigcirc \bigcirc 1.52.6 \bigcirc 0.9 \bigcirc 1.52.6 \bigcirc 0.5 \bigcirc 1.52.6 \bigcirc 1.5	6-pattern section 1,51,51,51,51 5 0.7 80 1 1 10.8 11 10.8 4-pattern section for ground terminal

Products not marked with $\ensuremath{\text{\%}}$ in the drawing have no ground terminal.

1.4(H)mm, 1.5/2mm-travel Surface Mount Type | SSSS8 Series



Small size General Use type

Push

Slide

Devices

Big size General Use type

Other Use type

Products Specifications

Items		Series	SSAD	SSSS8	SSSS7	SSSS2	SSSS9	SSSF	SSSU
Operation	ng temperat	ure range	–10°C to +60°C						
Rating (max.) (Resistive load)			1mA 5V DC	DC 0.3A 4V DC 0.3A 6V DC			0.1A 12V DC	0.1A 30V DC	
Initial contact resistance			100m Ω max.	00mΩ max. 70mΩ max.			30mΩ max.	25mΩ max.	
Electrical performance	Insulation	resistance	100MΩ mi	n. 100V DC		1001	/IΩ min. 500	V DC	
	Voltag	e proof	100V AC	for 1 min.		500	OV AC for 1 n	nin.	
	Robustness	of terminal		;	3N for 1 min	1.		5N for	1 min.
	Robustness of actuator	Operating direction	5N	10	ON	20N		30N	
Mechanical		Pulling direction	5N		10N Static force	10N		30N Static force	
performance	Vibra	ation	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						
		Manual soldering	300±5℃ 5s max.		260±5℃ 3s max.	350±10℃ 4s max.	300±10℃ 5s max.	350±10℃ 5s max.	350±10℃ 3 ⁺¹ ₀s
	Resistance to soldering heat	Dip soldering		—		260±5℃ 5 ₋₁ 0		3	260±5℃ 10±1s
		Reflow soldering		Please s	ee P.161			_	
	Operating life without load		** 10,000 cycles 100m Ω max.			ix.	10,000 cycles 60mΩ max. 10,000 cycles 45mΩ max.		
Durability	Operating life with load Load : As rating		10,000 cycles ${200m\Omega}$ max. ${}$ 10,000 cycles ${}$ 130m Ω max.			10,000 cycles 80mΩ max.	10,000 cycles 65mΩ max.		
	Cold		–20±2°C for 96h						
Environmental performance	Dry heat		85±2℃ for 96h						
	Damp heat		40±2℃, 90 to 95%RH for 96h						

Note

Detector

Push

Slide

Rotary

Encoders

Power Dual-in-line Package Type Multi Control

TACT Switch™

Devices

Custom-**Products**

Small size General Use type Big size General Use type

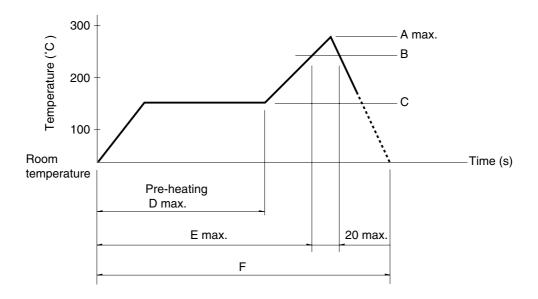
Other Use type

^{*} SSSS213202 only 100 cycles.

Soldering Conditions

Example of Reflow Soldering Condition

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 0.1 to 0.2ϕ 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 (Re	flow type)	A(℃) 3s max.	B (℃)	c (℃)	D (s)	E(s)	F(s)
	Vertical	1-pole, 3-positions	250					
	Horizontal	1-pole, 2-positions	250					
SSSS2	Vertical	1-pole, 2-positions	240	200				
	Horizontal	1-pole, 3-positions 2-poles, 3-positions		200				
	SSSS7		250					
	SS	SAD	240	220	150	120		
	Horizontal	1-pole, 2-positions 1-pole, 3-positions (1.5mm)	255	200				
SSSS8	Tionzontai	1-pole, 3-positions (2mm) 1-pole, 4-positions 2-poles, 2-positions	240	220				
	Vertical		240					
SSST				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. The above-stated conditions shall also apply to switch surface temperatures.
- 2. Soldering conditions differ depending on reflow soldering machines. You are requested to verify the soldering conditions thoroughly beforehand.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

Multi Control Devices

TACT Switch™

Custom-Products

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

Taping Specifications

■ Taping Packaging

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line

Package Type
Multi Control
Devices

TACT Switch™

Custom-Products

Small size General Use type

Big size General Use type

Other Use type

Reel Size		Unit:mm
	<u>Ø13 hole</u> <u>Ø21</u> <u>088</u> 02.00 W	

Series		Num	Reel width	Tape width			
Series			1 reel	1 case / domestic	1 case/export packing	W (mm)	(mm)
	Vertical	1-pole, 2-positions	1,200	2,400	4,800		24
SSSS2	Vertical	1-pole, 3-positions	1,000	2,000	4,000	24.4	
		Horizontal	1,400	2,800	5,600		
		SSSS71	2,000	4,000	8,000	16.4	16
SSSS7 ※	SSSS7A SSSS7B		2,000	4,000	8,000	25.5	24
	SSSS7C		4,800	9,600	19,200	24.4	24
	Vertical		1,800	3,600	7,200	24.4	
SSSS8		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	16
	Horizontal	1-pole, 3-positions (2mm)					
		1-pole, 4-positions 2-poles, 2-positions	2,500	5,000	10,000	24.4	24
	SSST		1,100	2,200	4,400		
	SS	SAD	5,000	10,000	20,000	16.4	16

Notes

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