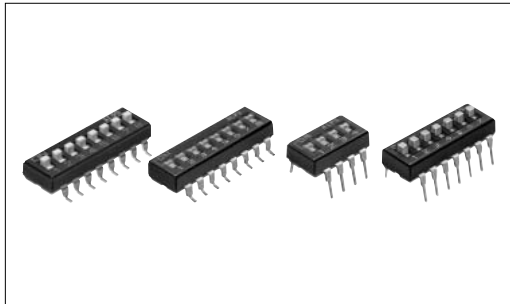


Dual In-line Package Type Switches 2 to 10 Circuits-designed

SSGM Series



IC-size type highly reliable with gold contact supports automatic insertion.



Typical Specifications

Items		Specifications
Rating(max.)(min.) (Resistive load)		25mA 24V DC(At opening and closing) 0.1A 50V DC(When energized)50μA 3V DC
Contact resistance (Initial performance/After lifetime)		50m max./100m max.
Operating force		3.5 ± 2.5N
Operating life	Without load	3,000cycles
	With load	3,000cycles(25mA 24V DC)

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

Product Line

Soldering	Actuator configuration	Packaging style	Poles	Minimum order unit(pcs.)	Product No.	Drawing No.
Insertion	Standard	Stick	2	7,000	SSGM120100	1
			3	5,200	SSGM130100	
			4	4,000	SSGM140100	
			5	3,300	SSGM150100	
			6	2,800	SSGM160100	
			7	2,500	SSGM170100	
			8	2,200	SSGM180100	
			9	1,900	SSGM190100	
			10	1,800	SSGM1A0100	
			Flat	4	4,000	
	6			2,800	SSGM260100	
	8			2,200	SSGM280100	
	10			1,800	SSGM2A0100	
	Reflow		Standard	Taping	4	3,200
8		1,600			SSGM680200	
Flat		2	4,000		SSGM720101	4
		4			SSGM740101	
		6	2,000		SSGM760102	
		8			SSGM780103	

Notes

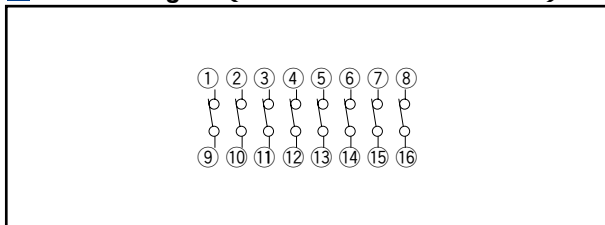
1. Products other than those listed in the above chart are also available. Please contact us for details.
2. Please place purchase orders per minimum order unit(integer).

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
1	<p>Standard</p>	
2	<p>Flat</p>	
3	<p>Standard</p>	
4	<p>Flat</p>	

Circuit Diagram (Viewed from Direction A)

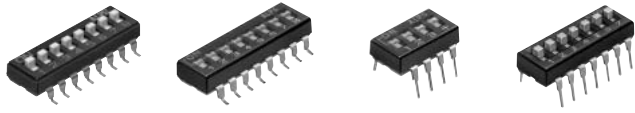


Number of Poles and Outline Dimension(L)

Number of poles(N)	2	3	4	5	6	7	8	9	10
L(mm)	6.9	9.4	11.9	14.5	17	19.6	22.1	24.6	27.2

- Detector
- Push
- Slide
- Rotary
- Encoders
- Power
- Dual-in-line Package Type
- TACT Switch™
- Custom-Products

List of Varieties

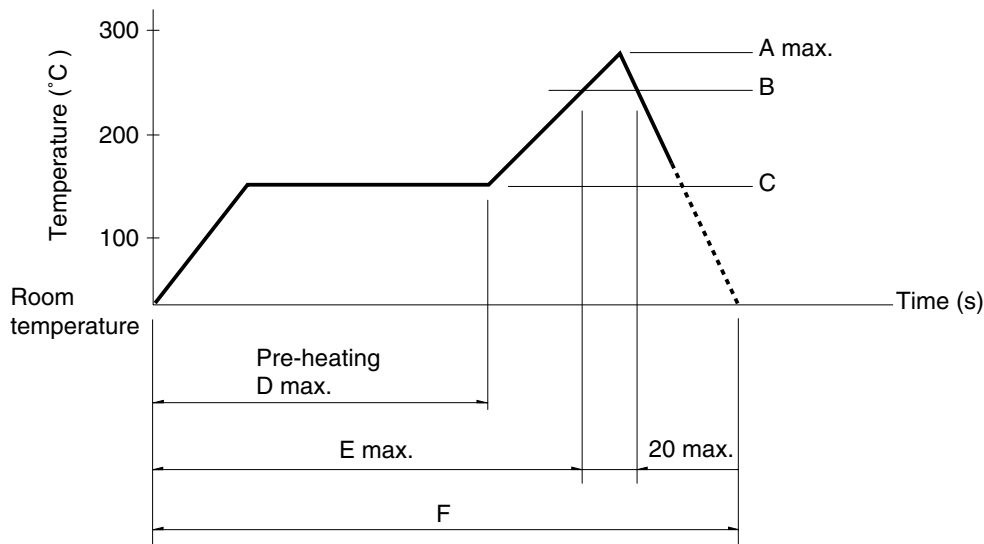
Items		Series	SSGM
Photo			
Operating temperature range			-40 to +85
Rating(max.)(min.)(Resistive load)			25mA 24V DC(At opening and closing), 0.1A 50V DC(When energized), 50 μ A 3V DC
Electrical performance	Contact resistance (Initial performance/After life time)		50m max./100m max.
	Insulation resistance		100M min. 500V DC
	Voltage proof		500V AC for 1minute
Mechanical performance	Terminal strength		5N for 1minute
	Actuator strength	Operating direction	10N
		Pulling direction	10N
	Resistance to soldering heat	Manual soldering	350 \pm 5 , 5s max.
		Dip soldering	270 \pm 5 , 10 \pm 1s
		Reflow soldering	Please see P.244
Durability	Operating life	Without load	3,000cycles
		With load	3,000cycles(25 mA 24V DC)
Environmental performance	Cold		-40 \pm 2 for 250h
	Dry heat		85 \pm 2 for 250h
	Damp heat		40 \pm 2 , 90 to 95%RH for 250h
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Dual In-line Package Type Switches Cautions	245

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 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 () 3s max.	B ()	C ()	D (s)	E (s)	F (s)
SSGM	240	230	150	120	—	—

Notes

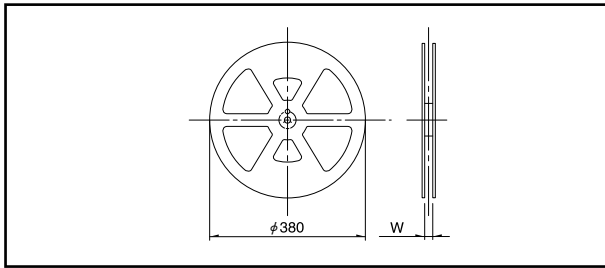
1. The condition mentioned above is the temperature on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the PC board's material, size, thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.
2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

- Detector
- Push
- Slide
- Rotary
- Encoders
- Power
- Dual-in-line Package Type
- TACT Switch™
- Custom-Products

Taping Packaging

Reel Size

Unit:mm



Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
 Package Type

TACT Switch™

Custom-
 Products

Series			Number of packages(pcs.)			Reel width W(mm)	Tape width (mm)
			1 reel	1 case/Japan	1 case/export packing		
SSGM6	Reflow, standard	4P	800	1,600	3,200	24.4	24
		8P		800	1,600	44.4	44
SSGM7	Reflow, flat	2, 4P	1,000	2,000	4,000	24.4	24
		6P		1,000	2,000	32.4	32
		8P				44.4	44

Note

Please place purchase orders for taping products per minimum package units(1 reel or 1 case)

Stick Packaging

Series		Number of packages(pcs.)		
		1 stick	1 case /Japan	1 case /export packing
SSGM	2P	70	1,400	7,000
	3P	52	1,040	5,200
	4P	40	800	4,000
	5P	33	660	3,300
	6P	28	560	2,800
	7P	25	500	2,500
	8P	22	440	2,200
	9P	19	380	1,900
	10P	18	360	1,800