

■ Typical Specifications

Items		Specifications		
Rating (max.)/(min.) (Resistive load)		1mA 5V DC / 50 μA 3V DC		
Contact resistance (Initial / After operating life)		2Ω max. / 5Ω max.		
Operating force		0.35N max.		
Operating life	Without load	50,000cycles		
	With load	50,000cycles (1mA 5V DC)		

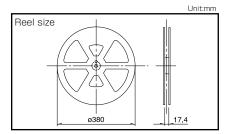
Product Line

Poles Positions		Terminal type	Total travel (mm)	Location lug	Minimum order unit (pcs.)		Product No.
		Terminal type			Japan	Export	FIOUUCT NO.
Two-direction type: 2-position each side	For PC board	2.72	With	4.000	16,000	SSCQ110100	
	(Reflow)			4,000	10,000	SSCQ120102	

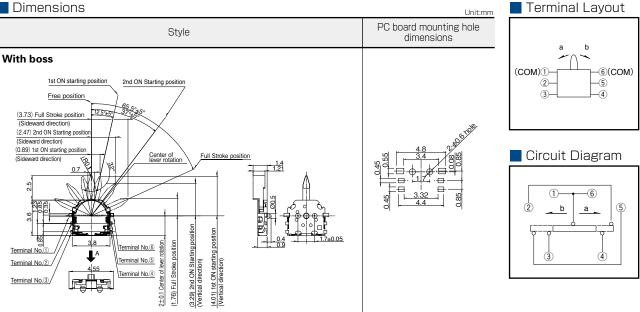
Packing Specifications

Taping

Nun	nber of packages (p	Tape width	Export package measurements	
1 reel 1 case /Japan 1 case /export packing		(mm)	(mm)	
4,000	0 8,000 16,000		16	417×409×139



Dimensions



Dimensions drawing is for type with location lugs.

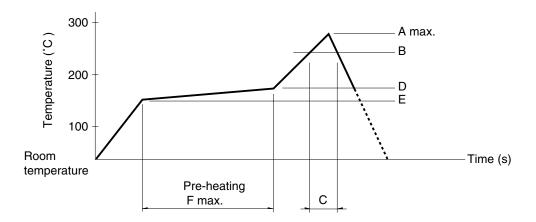
0		General-purpose Type						
	Series -	SSCQ	SSCM	SPVL	SPPB			
Photo								
Operation type		Two-way Two-direction type	Two-way	Three-way	One-way Two-way			
	W	3.8	5	5.55	6.3			
Dimensio (mm)	ons D	3.6	4	6.6	3			
	Н	0.9	1.5	1	4.9			
Operating to	emperature range	−10°C t	o +60℃	-40°C to +85°C				
Auto	motive use	_	_	•	•			
Life cycl	le (availability)	★ 3	* 3	* 3	1 3			
Poles	/ Positions	1 / Two-direction type: 2-position each side	1/2	1.	/1			
Rating (max.) (Resistive load)		1mA 5V DC			0.1A 30V DC			
Rating (min.) (Resistive load)		50μA 3V DC						
Operating life without load Durability Operating life with load Rating (max.) (Resistive load)		50,000cycles 5Ω max.			50,000cycles 2Ω max.			
		50,000cycles 5Ω max			50,000cycles 2Ω max.			
	Initial contact resistance		2Ω max.		1Ω max.			
Electrical Insulation performance resistance		100MΩ min. 100V DC						
Voltage proof		100V AC for 1 minute						
Mechanical	Terminal strength	0.5N for 1minute		1N for 1minute	3N for 1minute			
performance	Actuator strength	1N	2N	5N	10N			
Cold		-20°C	C 96h	-40℃ 500h				
Environmental performance Dry heat Damp heat		85°C 96h 85°			C 500h			
		40°C, 90 to 95%RH 96h 60°C, 90 to 9			95%RH 500h			
Oper	ation force	0.35N max.						
	Page	29	30	31	32			

Note

Indicates applicability to all products in the series.

Example of Reflow Soldering Condition

- 1. Heating method: Double heating method with infrared heater.
 2. Temperature measurement: Thermocouple ϕ 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 (s)	D (°C)	E (°C)	F(s)
SPPB	250		40			
SPVE						
SPVL						
SPVM						
SPVN						
SPVR	260	230	40	180	150	120
SPVS			40			
SPVT						
SSCM						
SSCQ						
SPVQC	250					

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, surface 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.

Reference for Hand Soldering

Series	Soldering temperature	Soldering time	
SPVS, SPVN, SPVT, SPVM, SPVR, SPVE, SSCQ, SSCM, SPVL, SSCT, SPVQC	350±5℃	3s max.	
SPVQ1, SPVQ3, SPVQ6, SPVQ7, SPVQ8, SPVQ9, SSCN, SPVQA	300±10℃	3+1/0s	
SPPB (Reflow)	300±5℃	5s max.	
SSCF, SPPB (For Lead, Dip)	350±10℃	3+1/0s	

■ Reference for Dip Soldering

(For PC board terminal types)

	Ite	ms	Dip soldering	
Series	Preheating temperature	Preheating time	Soldering temperature	Duration of immersion
SSCT, SPVQ1, SPVQ3, SPVQ6, SPVQ7, SPVQ8, SPVQ9, SPVQA	100±10℃	60s max.	260±5℃	5±1s
SPPW8, SPPB	100 ℃ max.	60s max.	255±5℃	5±1s
SSCF	_		260±5℃	5±1s

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ALPS:

SSCQ120102 SSCQ110100