

Water-proof Type (Surface Mount) SPVQC Series

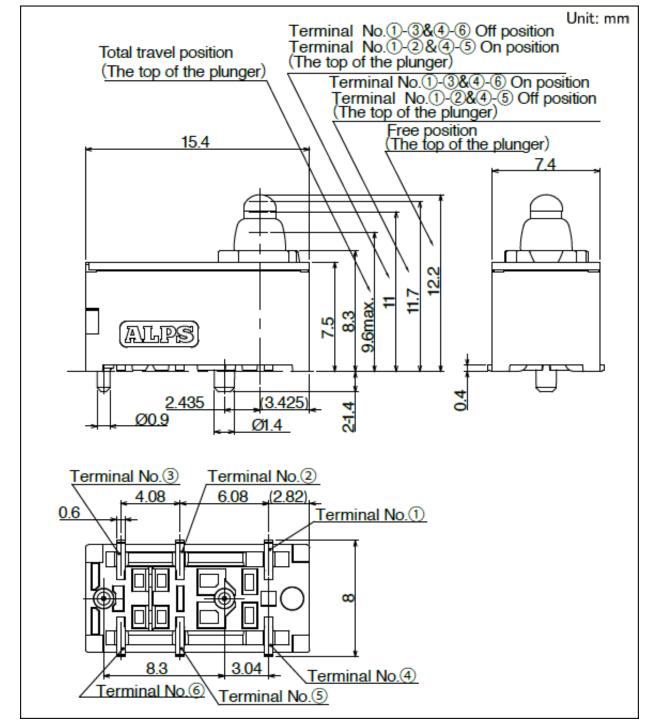
Part number		SPVQC10100
Poles		2
Positions		2
Changeover timing		Non shorting
Operation part shape		Push
Terminal type		For PC board (Reflow)
Operating force		1±0.5N
Operating temperature range		-40℃ to +85℃
Rating (max.)/(min.) (Resistive load)		50mA 18V DC/50µA 5V DC
Electrical performance	Contact resistance (Initial/After operating life)	75mΩ max./200mΩ max.
	Insulation resistance	e 100MΩ min. 500V DC
	Voltage proof	250V AC for 1 minute
Mechanical performance	Terminal strength	3N for 1 minute
	Actuator strength	20N
Durability	Operating life without load	300,000 cycles 200m Ω max.
	Operating life with load Rating (max.) (Resistive load)	300,000 cycles 200mΩ max.
Environmental performance	Cold	-40℃ 500h
	Dry heat	85℃ 500h
	Damp heat	60℃, 90 to 95%RH 500h

Minimum order unit (pcs.)	Japan	300
	Export	2,400

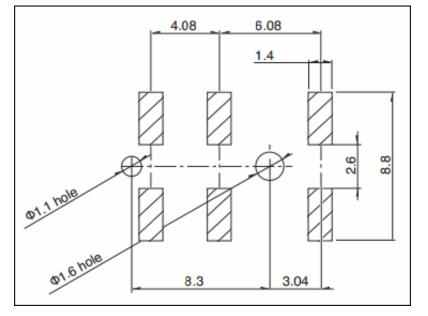
Photo



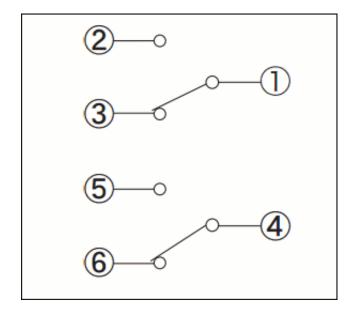
Dimensions



Land Dimensions

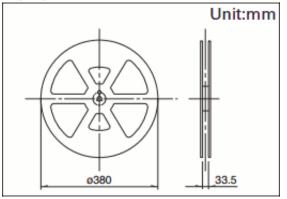


Circuit Diagram



Packing Specifications

Taping



Number of packages	1 reel	300
(pcs.)		
	1 case / Japan	1,200

2017/6/19	SPVQC Series - Basic information		
	1 case / export packing	2,400	
Tape width (mm)		32	
Export package measurements (mm)		403×403×360	

Soldering Conditions

Example of Reflow Soldering Condition

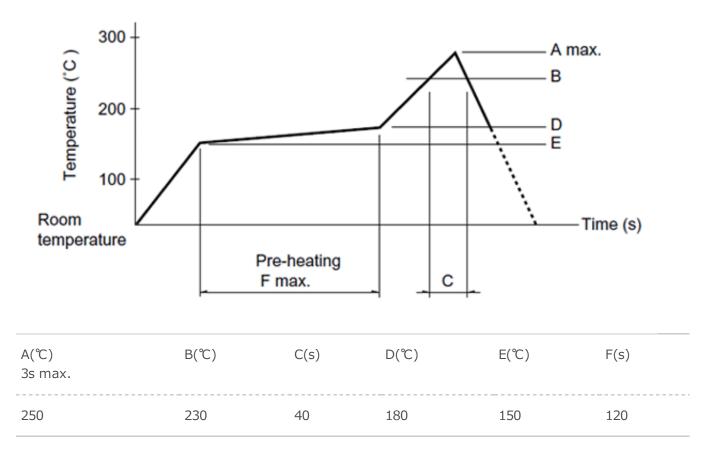
1. Heating method :

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



(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

Soldering temperature	350±5℃
Soldering time	3s max.

Notes are common to this series/models.

- 1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. This unit cannnot be used in water (IP67 rating, except for terminal).
- 3. Please place purchase orders per minimum order unit (integer).
- 4. This products can be used in vehicles.

Although these products are designed to perform over a wide operating temperature range, please ensure that you receive and read the formal delivery specifications before use.