

6 mm Square Long Travel SMD Light Touch Switches

Type: **EVQP0/EVQP1/EVQ9P**



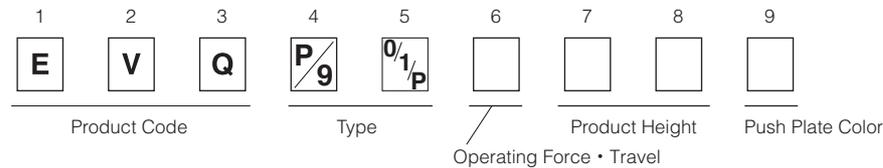
■ Features

- External dimensions : 6.0 mm×6.1 mm, Height 5.0 mm
(Including the push plate)
- Steady and low contact resistance (100 mΩ max.)
- Excellent solderability (J-bent-type terminals)

■ Recommended Applications

- Operating switches for car electronic equipment.
- Input on operating switches for telephones, electronic musical instruments, etc.

■ Explanation of Part Numbers



■ Specifications

Type		Snap action/Push-on type SPST	
Electrical	Rating	10 μA 2 V DC to 50 mA 12 V DC (Resistive load)	
	Contact Resistance	100 mΩ max.	
	Insulation Resistance	100 MΩ min. (at 100 V DC)	
	Dielectric Withstanding Voltage	250 V AC for 1 minute	
	Bouncing	10 ms max. (ON, OFF)	
Mechanical	Operating Force	1.6 N±0.5 N, 2.0 N±0.6 N 2.5 N±0.6 N 3.0 N±0.8 N 3.5 N±1.0 N	2.2 N±0.6 N 2.5 N±0.6 N
	Travel	1.3 mm±0.2 mm	1.0 mm±0.2 mm
Endurance	Operating Life	3.5 N type: 30,000 cycles min. 1.6 N, 2.0 N, 2.2 N, 2.5 N, 3.0 N types: 100,000 cycles min.	
Operating Temperature		-40 °C to +85 °C	
Storage Temperature		-40 °C to +85 °C (Bulk) -20 °C to +60 °C (Taping)	
Minimum Quantity/Packing Unit		2,000 pcs. Embossed Taping (Reel Pack)	
Quantity/Carton		10,000 pcs.	

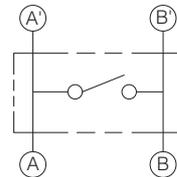
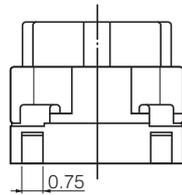
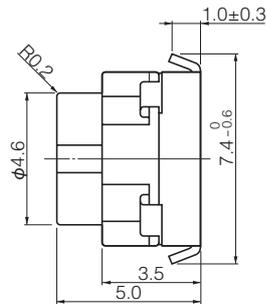
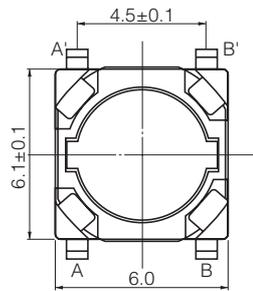
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

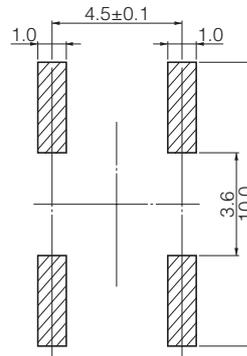
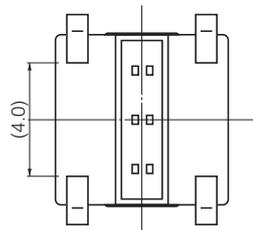
EVQP0
EVQP1
EVQ9P

(Embossed Taping)

General dimension tolerance : ± 0.2
() dimensions are reference dimensions.



Circuit diagram

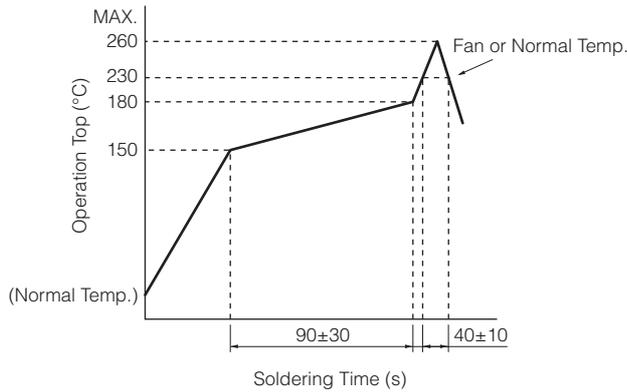


PWB land pattern for reference

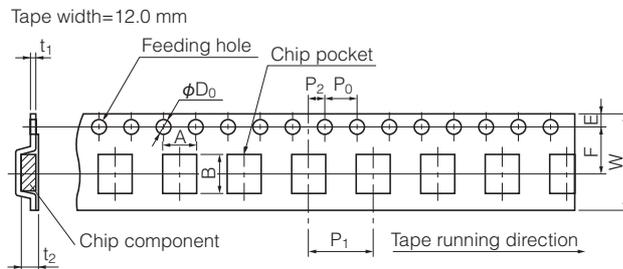
Part Numbers	Operating Force	Travel	Height	Push Plate Color	Operating Life
EVQP1K05M	2.2 N	1.0 mm	5.0 mm	Natural	100,000 cycles
EVQP1Y05M	2.5 N	1.0 mm	5.0 mm	Natural	100,000 cycles
EVQP1905M	1.6 N	1.3 mm	5.0 mm	Natural	100,000 cycles
EVQP1F05M	2.0 N	1.3 mm	5.0 mm	Natural	100,000 cycles
EVQP1D05M	2.5 N	1.3 mm	5.0 mm	Natural	100,000 cycles
EVQP0405M	3.0 N	1.3 mm	5.0 mm	Natural	100,000 cycles
EVQ9P105M	3.5 N	1.3 mm	5.0 mm	Natural	30,000 cycles

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■ Recommended Reflow Soldering Conditions



● Embossed Carrier Taping



Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.

Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.

Joint of carrier tape : One joint per one reel may exist.

Unit: mm

Part No.	Height	A	B	W	F	E	P_1	P_2	P_0	D_0 Dia.	t_1	t_2
EVQP0 EVQP1 EVQ9P	5.0	6.4±0.2	7.9±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5 ^{+0.1} ₋₀	0.4±0.1	5.25±0.20