

3.5 mm×2.9 mm Side-operational SMD

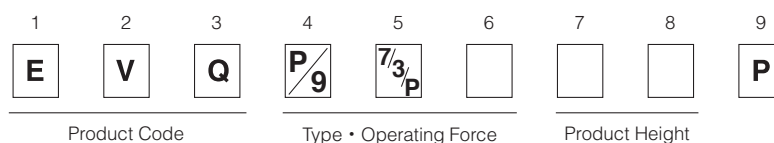
Light Touch Switches

Type: **EVQP7/EVQP3/EVQ9P7****■ Features**

- External dimensions : 3.5 mm×2.9 mm, Height 1.35 mm
- A wide range of terminal type : L-shape, J-bent, Straight
- High mount ability
- Push plate strength enhanced type

■ Recommended Applications

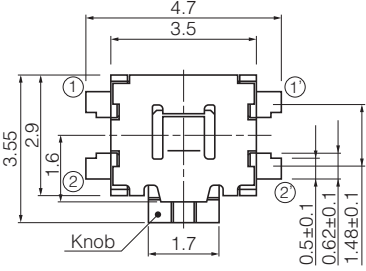
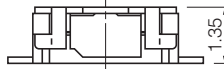
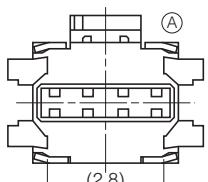
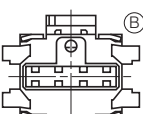
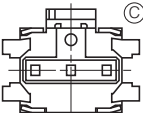
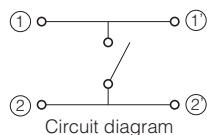
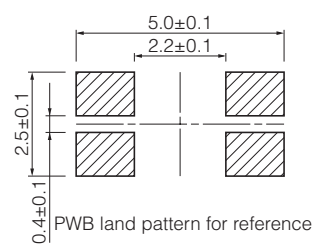
- Operation switches for portable electronic equipment
(Mobile phones, Digital still cameras, Camcorders,
Portable audio players, etc.)

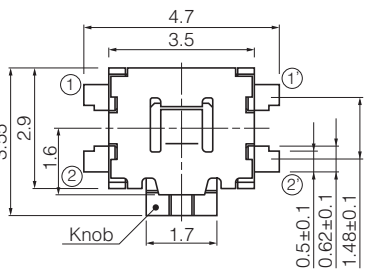
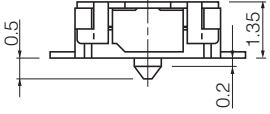
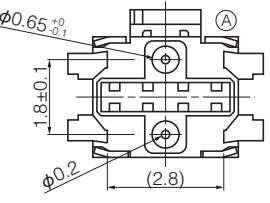
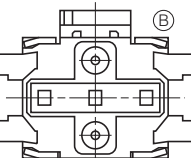
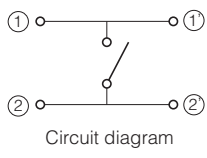
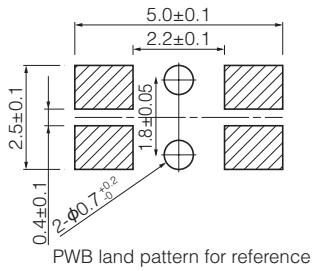
■ Explanation of Part Numbers**■ Specifications**

Type		Snap action / Push-on type SPST
Electrical	Rating	10 μA 2 V DC to 50 mA 12 V DC (Resistive load)
	Contact Resistance	500 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, 2.2 N
	Push Travel	0.2 mm
	Push Strength	30 N (1 minute)
Endurance	Operating Life	100,000 cycles min.
Operating Temperature		−20 °C to +70 °C
Storage Temperature		−40 °C to +85 °C (Bulk)
		−20 °C to +60 °C (Taping)
Minimum Quantity/Packing Unit		5,000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		25,000 pcs.

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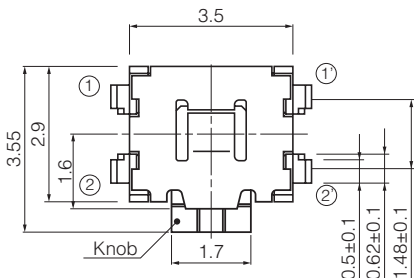
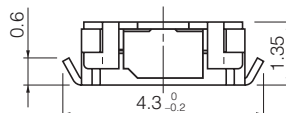
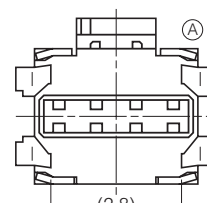
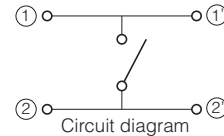
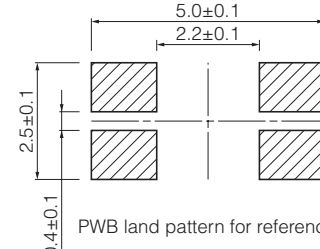
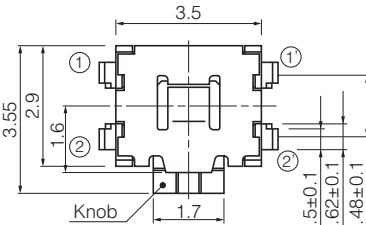
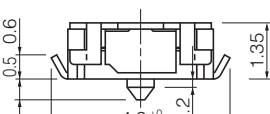
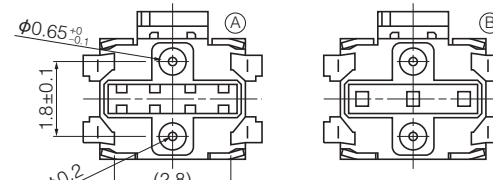
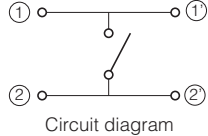
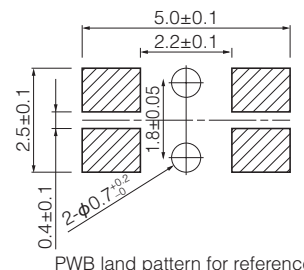
■ Dimensions in mm (not to scale)

No. 1 EVQP7A EVQP7J (Embossed Taping) With straight terminals Without boss 		General dimension tolerance : ± 0.2 () dimensions are reference dimensions.      Either(A)or(B)or(C)type will be used because of variety of molding dies.   PWB land pattern for reference			
Part Numbers		Operating Force	Height	Push Plate Color	Operating Life
EVQP7A01P		2.2 N	1.35 mm	Black	100,000 cycles
EVQP7J01P		1.6 N	1.35 mm	Black	100,000 cycles

No. 2 EVQP7C EVQP7L (Embossed Taping) With straight terminals With boss 		General dimension tolerance : ± 0.2 () dimensions are reference dimensions.     Either(A)or(B)type will be used because of variety of molding dies.   PWB land pattern for reference			
Part Numbers		Operating Force	Height	Push Plate Color	Operating Life
EVQP7C01P		2.2 N	1.35 mm	Black	100,000 cycles
EVQP7L01P		1.6 N	1.35 mm	Black	100,000 cycles

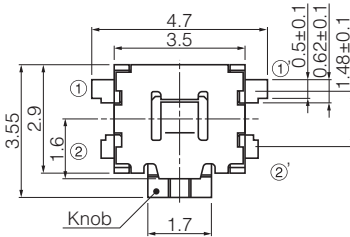
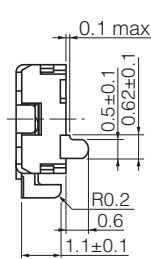
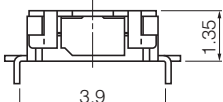
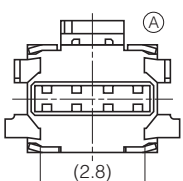
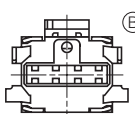
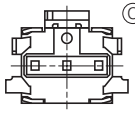
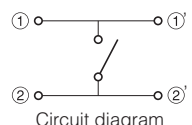
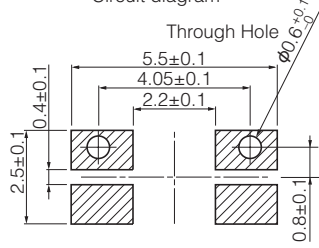
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■ Dimensions in mm (not to scale)

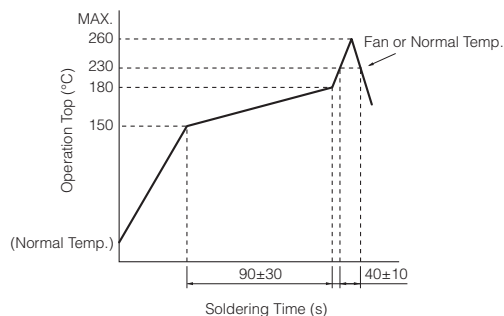
No. 3 EVQP7B EVQP7K (Embossed Taping) With J-bent terminals Without boss 	General dimension tolerance : ± 0.2 () dimensions are reference dimensions.    Either (A) or (B) or (C) type will be used because of variety of molding dies.  Circuit diagram  PWB land pattern for reference
Part Numbers EVQP7B01P EVQP7K01P	Operating Force 2.2 N 1.6 N Height 1.35 mm 1.35 mm Push Plate Color Black Black Operating Life 100,000 cycles 100,000 cycles
No. 4 EVQP7D EVQP7M (Embossed Taping) With J-bent terminals With boss 	General dimension tolerance : ± 0.2 () dimensions are reference dimensions.    Either (A) or (B) type will be used because of variety of molding dies.  Circuit diagram  PWB land pattern for reference
Part Numbers EVQP7D01P EVQP7M01P	Operating Force 2.2 N 1.6 N Height 1.35 mm 1.35 mm Push Plate Color Black Black Operating Life 100,000 cycles 100,000 cycles

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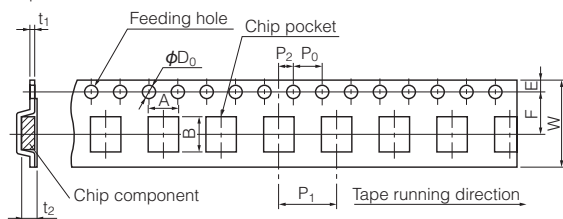
No. 5 EVQP3 EVQ9P (Embossed Taping) With L-shape terminals Without boss 	    Either A or B or C type will be used because of variety of molding dies.   General dimension tolerance : ± 0.2 () dimensions are reference dimensions.  Circuit diagram  PWB land pattern for reference			
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP3401P	2.2 N	1.35 mm	Black	100,000 cycles
EVQ9P701P	1.6 N	1.35 mm	Black	100,000 cycles

■ Recommended Reflow Soldering Conditions



● Embossed Carrier Taping

Tape width=12.0 mm



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.

● Straight terminals, L-shape terminals type

Unit: mm

Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQP7, EVQP3 EVQ9P7	1.35	5.2±0.2	4.5±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	0.3±0.1	1.5±0.2

● J-bent type

Unit: mm

Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQP7, EVQP3	1.35	4.5±0.2	4.5±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	0.3±0.1	1.5±0.2

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