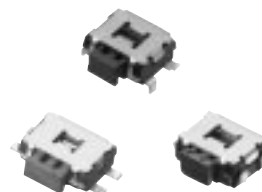


3.5 mm×2.9 mm Side-operational SMD

Light Touch Switches

Type: **EVQP7/EVQP3/EVQ9P7**



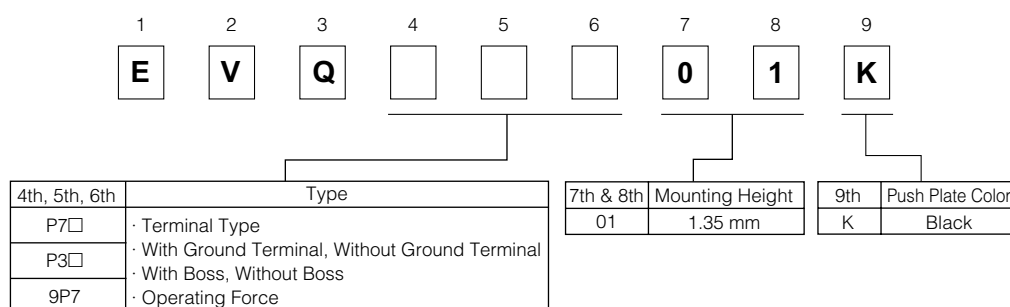
### ■ Features

- 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

### ■ Recommended Applications

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

### ■ Explanation of Part Numbers




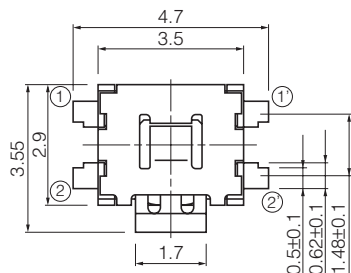
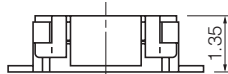
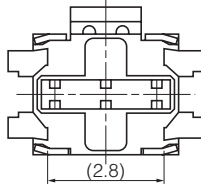
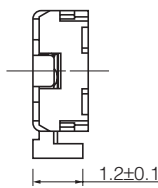
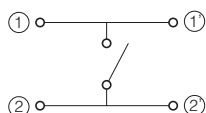
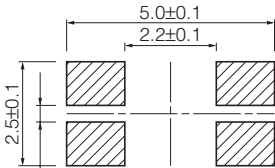
### ■ Specifications


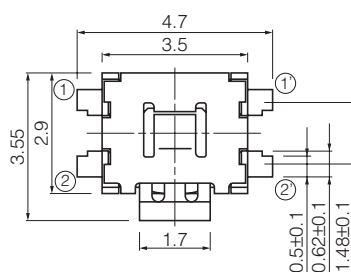
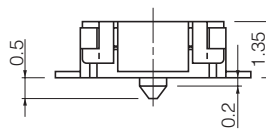
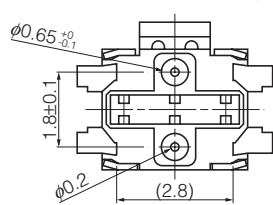
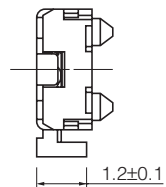
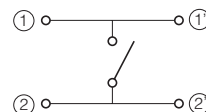
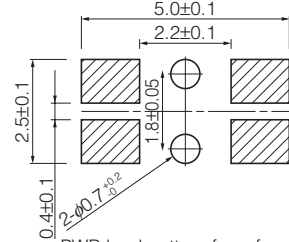
Type		Snap action / Push-on type SPST
Electrical	Rating	10 $\mu$ A 2 Vdc to 50 mA 12 Vdc (Resistive load)
	Contact Resistance	500 m $\Omega$ max.
	Insulation Resistance	100 M $\Omega$ min. (at 100 Vdc)
	Dielectric Withstanding Voltage	250 Vac (1 minute)
	Bouncing	10 ms max. (ON, OFF)
Mechanical	Operating Force	1.6 N, 2.2 N
	Push Travel	0.2 mm
	Push Strength	30 N (1 minute)
Endurance	Operating Life	100000 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		5000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		25000 pcs.

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00 Sep. 2010


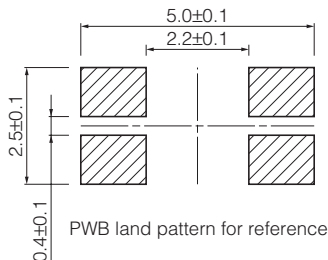
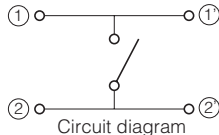
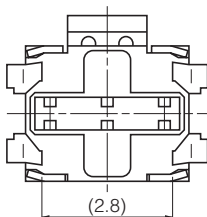
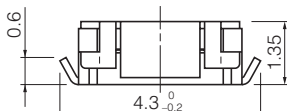
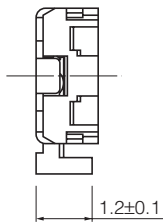
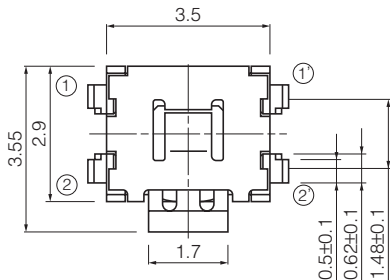
## ■ Dimensions in mm (not to scale)


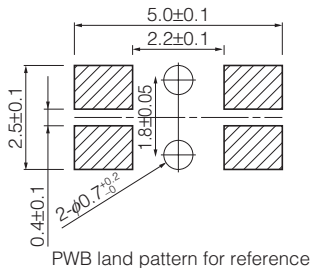
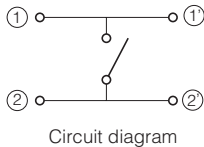
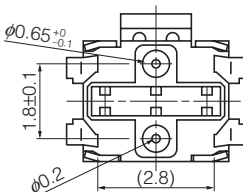
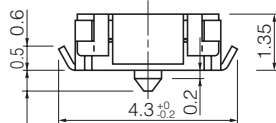
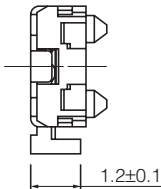
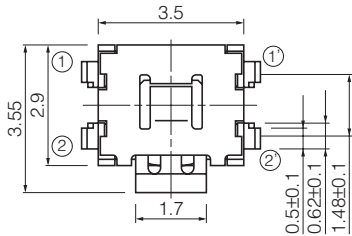
<div>No. 1</div> <div>EVQP7A EVQP7J</div> <div>(Embossed Taping)</div> <div>With straight terminals Without boss</div> <div></div>		<div></div> <div></div> <div></div> <div></div> <div></div> <div>Circuit diagram</div> <div></div> <div>PWB land pattern for reference</div>		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP7A01K	2.2 N	1.35 mm	Black	100000 cycles
EVQP7J01K	1.6 N	1.35 mm	Black	100000 cycles

<div>No. 2</div> <div>EVQP7C EVQP7L</div> <div>(Embossed Taping)</div> <div>With straight terminals With boss</div> <div></div>		<div></div> <div></div> <div></div> <div></div> <div></div> <div>Circuit diagram</div> <div></div> <div>PWB land pattern for reference</div>		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP7C01K	2.2 N	1.35 mm	Black	100000 cycles
EVQP7L01K	1.6 N	1.35 mm	Black	100000 cycles

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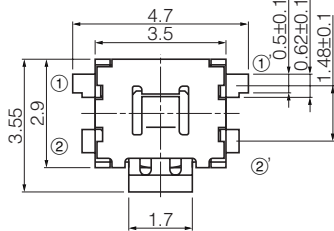
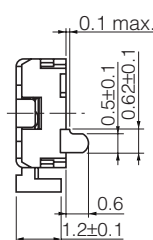
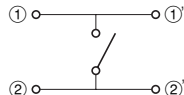
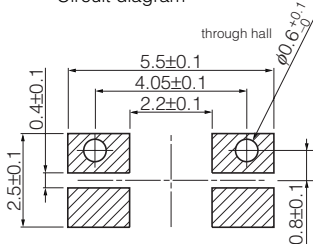
### ■ Dimensions in mm (not to scale)

<div>No. 3</div> <div>EVQP7B EVQP7K</div> <div>(Embossed Taping)</div> <div>With J-bent terminals</div> <div>Without boss</div> <div></div>		<div></div>		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP7B01K	2.2 N	1.35 mm	Black	100000 cycles
EVQP7K01K	1.6 N	1.35 mm	Black	100000 cycles

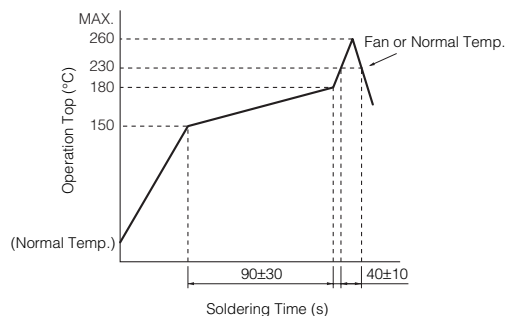
<div>No. 4</div> <div>EVQP7D EVQP7M</div> <div>(Embossed Taping)</div> <div>With J-bent terminals</div> <div>With boss</div> <div></div>		<div></div>		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP7D01K	2.2 N	1.35 mm	Black	100000 cycles
EVQP7M01K	1.6 N	1.35 mm	Black	100000 cycles

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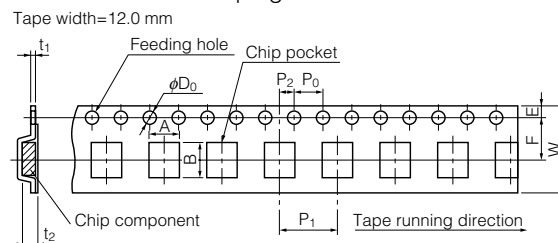
## ■ Dimensions in mm (not to scale)

<div>No. 5</div> <div>EVQP3 EVQ9P</div> <div>(Embossed Taping)</div> <div>With L-shape terminals Without boss</div> <div></div>	<div></div> <div></div> <div></div> <div><p>Circuit diagram</p></div> <div><p>PWB land pattern for reference</p></div>			
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP3401K	2.2 N	1.35 mm	Black	100000 cycles
EVQ9P701K	1.6 N	1.35 mm	Black	100000 cycles

## ■ Recommended Reflow Soldering Conditions



## ● Embossed Carrier Taping



## ● Straight terminals, L-shape terminals type

Unit: mm

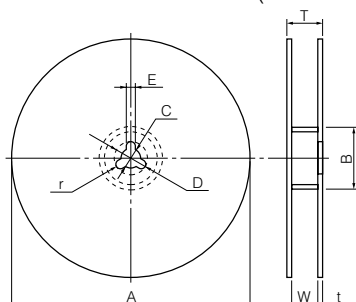
Part No.	Height	A	B	W	F	E	P <sub>1</sub>	P <sub>2</sub>	P <sub>0</sub>	D <sub>0</sub> Dia.	t <sub>1</sub>	t <sub>2</sub>
EVQP7, EVQP3 EVQ9P7	1.35	5.2±0.2	4.5±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5 <sup>+0.1</sup> <sub>-0</sub>	0.3±0.1	1.5±0.2

## ● J-bent type

Unit: mm

Part No.	Height	A	B	W	F	E	P <sub>1</sub>	P <sub>2</sub>	P <sub>0</sub>	D <sub>0</sub> Dia.	t <sub>1</sub>	t <sub>2</sub>
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 <sup>+0.1</sup> <sub>-0</sub>	0.3±0.1	1.5±0.2

## ● Standard Reel Dimensions in mm (not to scale)



Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0 min.	φ13.0±0.5	φ21.0±1.0	2.0±0.5
Item	W	T	t	r	
Rate (mm)	13.5±1.0	17.5±1.0	1.0 to 3.0	1.0±0.5	