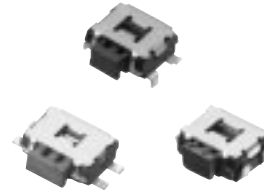


### 3.5 mm×2.9 mm Side-operational SMD Light Touch Switches

Type: **EVQP7/EVQP3/EVQ9P7**



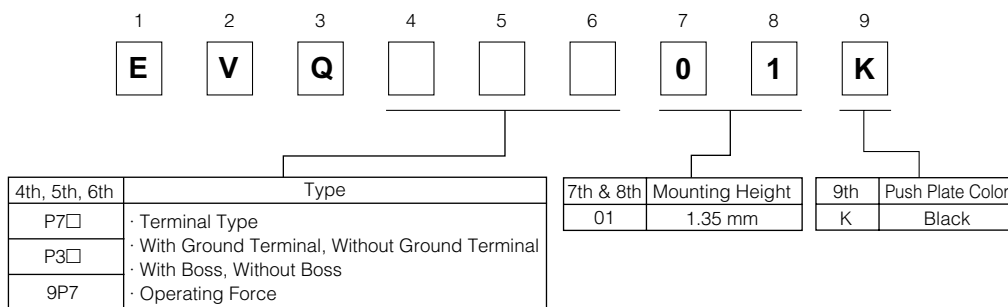
#### ■ Features

- 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


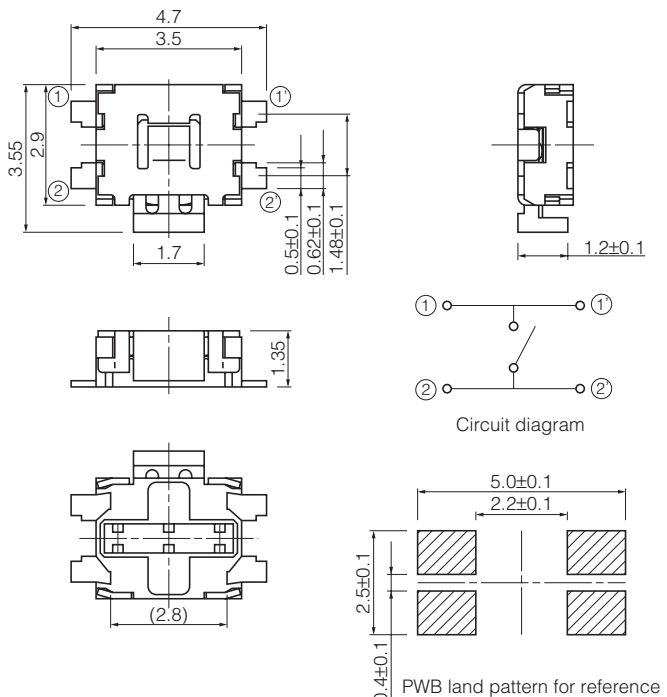

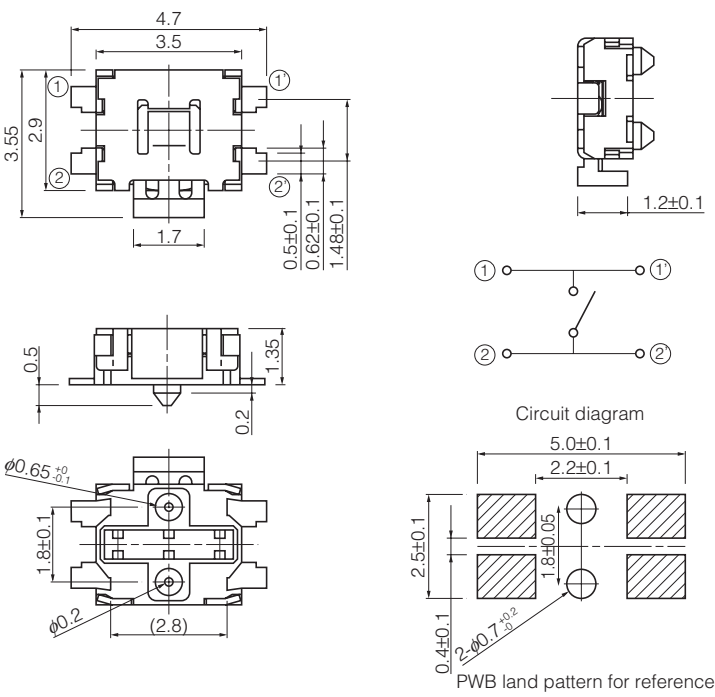


#### ■ Specifications

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.


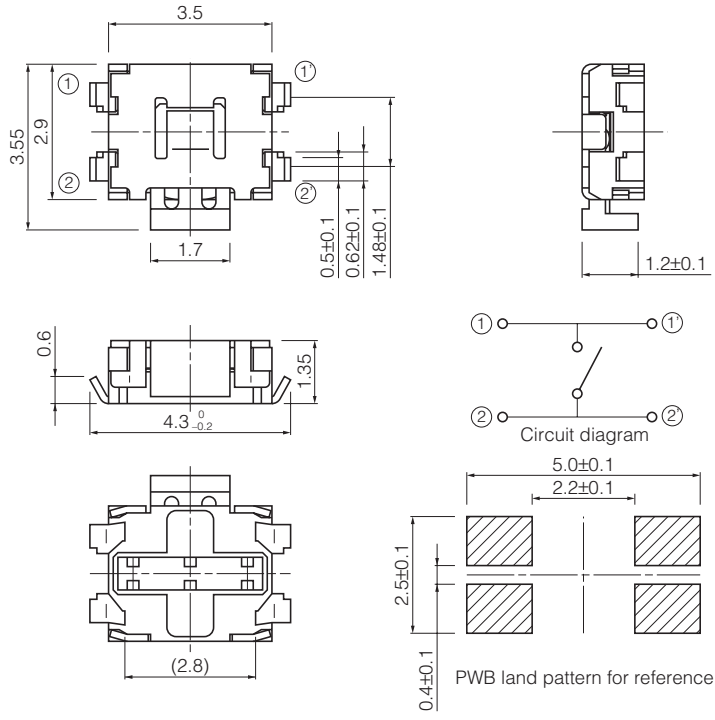

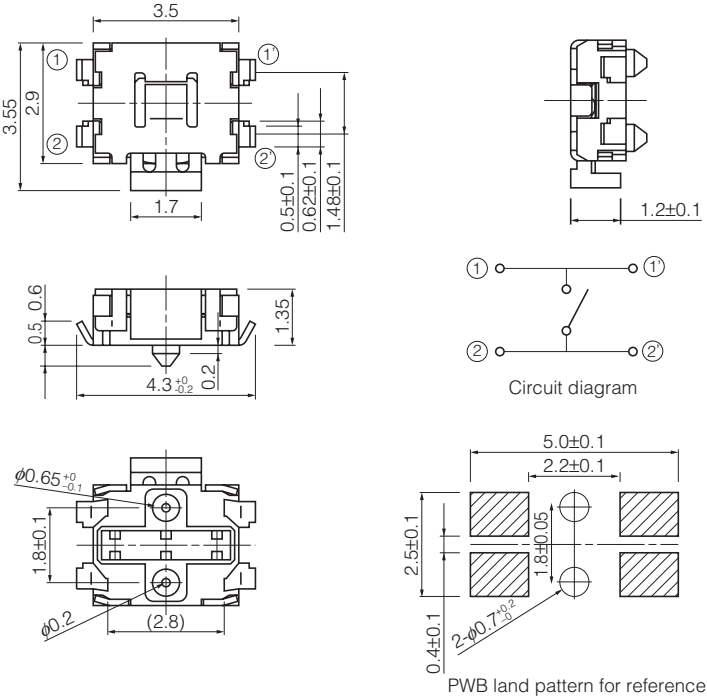
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

<p>No. 1</p> <p>EVQP7A EVQP7J</p> <p>(Embossed Taping)</p> <p>With straight terminals Without boss</p> 				
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVQP7A01K</p>	<p>2.2 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQP7J01K</p>	<p>1.6 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>No. 2</p> <p>EVQP7C EVQP7L</p> <p>(Embossed Taping)</p> <p>With straight terminals With boss</p> 				
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVQP7C01K</p>	<p>2.2 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQP7L01K</p>	<p>1.6 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>


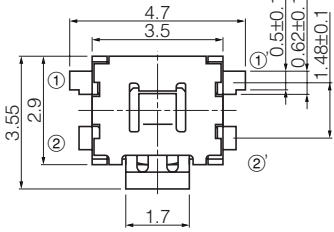
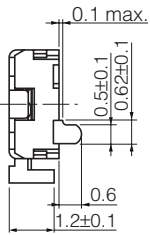
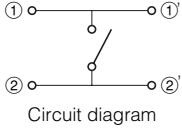
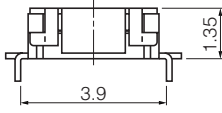
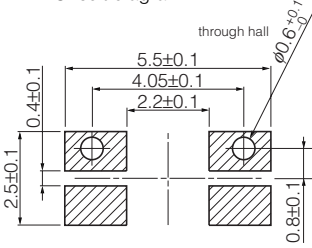
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Should a safety concern arise regarding this product, please be sure to contact us immediately.

### ■ Dimensions in mm (not to scale)

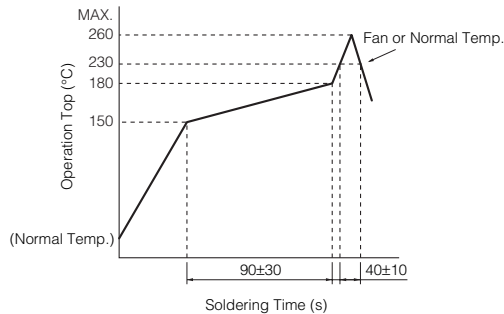
<p>No. 3</p> <p>EVQP7B EVQP7K</p> <p>(Embossed Taping)</p> <p>With J-bent terminals Without boss</p> 	 <p>3.5</p> <p>3.55</p> <p>2.9</p> <p>1.7</p> <p>0.5±0.1</p> <p>0.62±0.1</p> <p>1.48±0.1</p> <p>1.2±0.1</p> <p>0.6</p> <p>1.35</p> <p>4.3<sup>0</sup><sub>-0.2</sub></p> <p>(2.8)</p> <p>5.0±0.1</p> <p>2.2±0.1</p> <p>2.5±0.1</p> <p>0.4±0.1</p> <p>PWB land pattern for reference</p> <p>①</p> <p>②</p> <p>Circuit diagram</p>			
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVQP7B01K</p>	<p>2.2 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQP7K01K</p>	<p>1.6 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>No. 4</p> <p>EVQP7D EVQP7M</p> <p>(Embossed Taping)</p> <p>With J-bent terminals With boss</p> 	 <p>3.5</p> <p>3.55</p> <p>2.9</p> <p>1.7</p> <p>0.5±0.1</p> <p>0.62±0.1</p> <p>1.48±0.1</p> <p>1.2±0.1</p> <p>0.5</p> <p>0.6</p> <p>1.35</p> <p>4.3<sup>0</sup><sub>-0.2</sub></p> <p>0.2</p> <p>(2.8)</p> <p>5.0±0.1</p> <p>2.2±0.1</p> <p>2.5±0.1</p> <p>0.4±0.1</p> <p>PWB land pattern for reference</p> <p>①</p> <p>②</p> <p>Circuit diagram</p> <p>∅0.65<sup>+0</sup><sub>-0.1</sub></p> <p>1.8±0.1</p> <p>∅0.2</p> <p>1.8±0.05</p> <p>2-∅0.7<sup>+0.2</sup><sub>0</sub></p>			
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVQP7D01K</p>	<p>2.2 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQP7M01K</p>	<p>1.6 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>

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### ■ Dimensions in mm (not to scale)

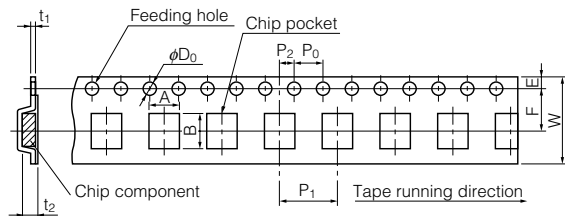
<p>No. 5</p> <p>EVQP3 EVQ9P</p> <p>(Embossed Taping)</p> <p>With L-shape terminals Without boss</p> 			 <p>Circuit diagram</p>	
			 <p>PWB land pattern for reference</p>	
<p>Part Numbers</p> <p>EVQP3401K</p> <p>EVQ9P701K</p>	<p>Operating Force</p> <p>2.2 N</p> <p>1.6 N</p>	<p>Height</p> <p>1.35 mm</p>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

### ■ Recommended Reflow Soldering Conditions



### ● Embossed Carrier Taping

Tape width=12.0 mm



### ● Straight terminals, L-shape terminals type

Unit: mm

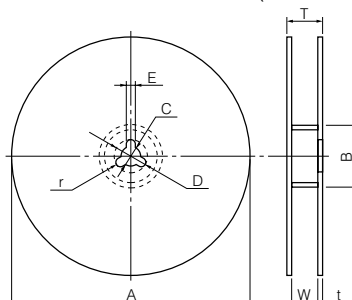
Part No.	Height	A	B	W	F	E	P <sub>1</sub>	P <sub>2</sub>	P <sub>0</sub>	D <sub>0</sub> Dia.	t <sub>1</sub>	t <sub>2</sub>
EVQP7, EVQP3 EVQ9P7	1.35	5.2±0.2	4.5±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5 <sup>+0.1</sup> <sub>-0</sub>	0.3±0.1	1.5±0.2

### ● 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	