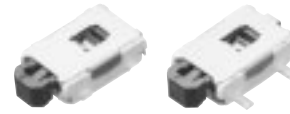


### 6.1 mm×4.0 mm Side-operational SMD Light Touch Switches

Type: **EVQPS**



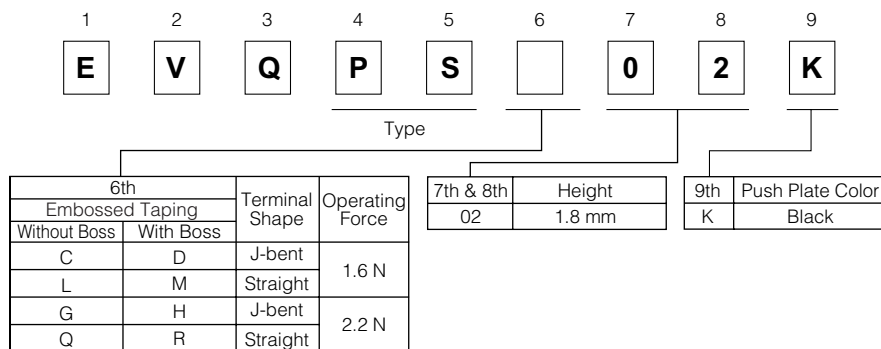
#### ■ Features

- External dimensions : 6.1 mm×4.0 mm, Height 1.8 mm
- Terminal shapes : straight, J-bent

#### ■ Recommended Applications

- Car navigation, Car audio


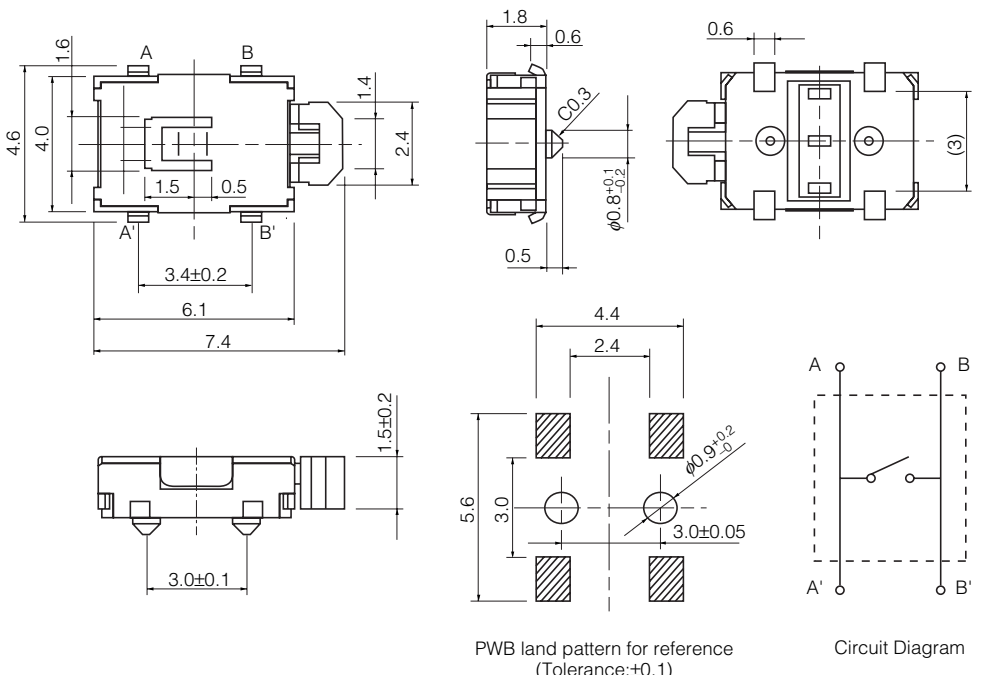

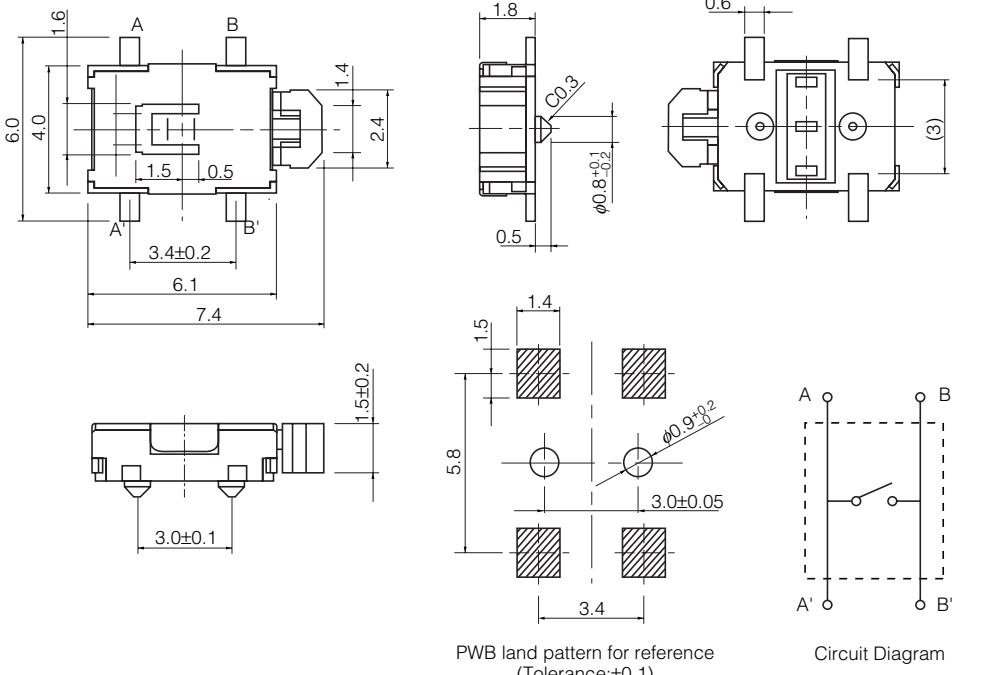
#### ■ Explanation of Part Numbers




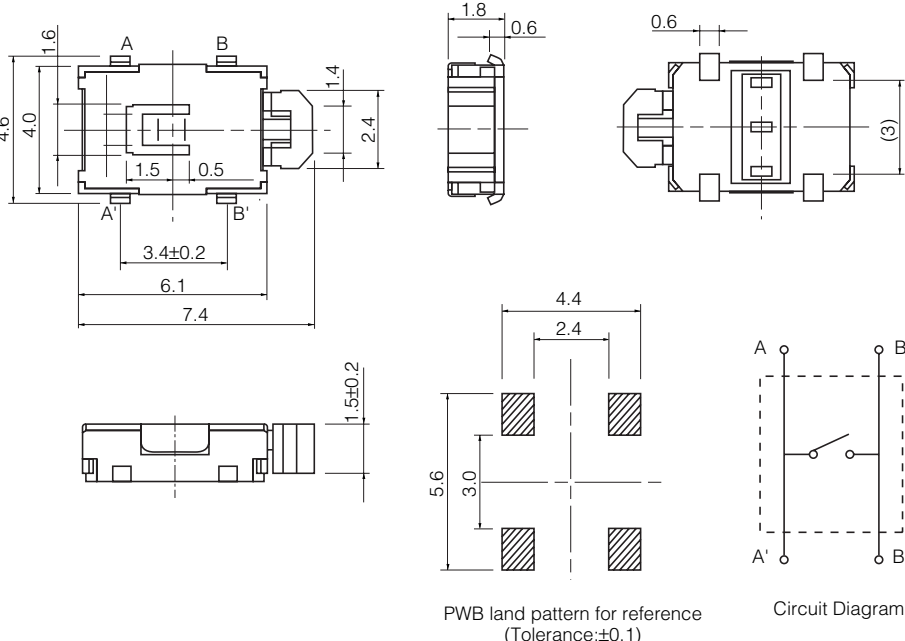

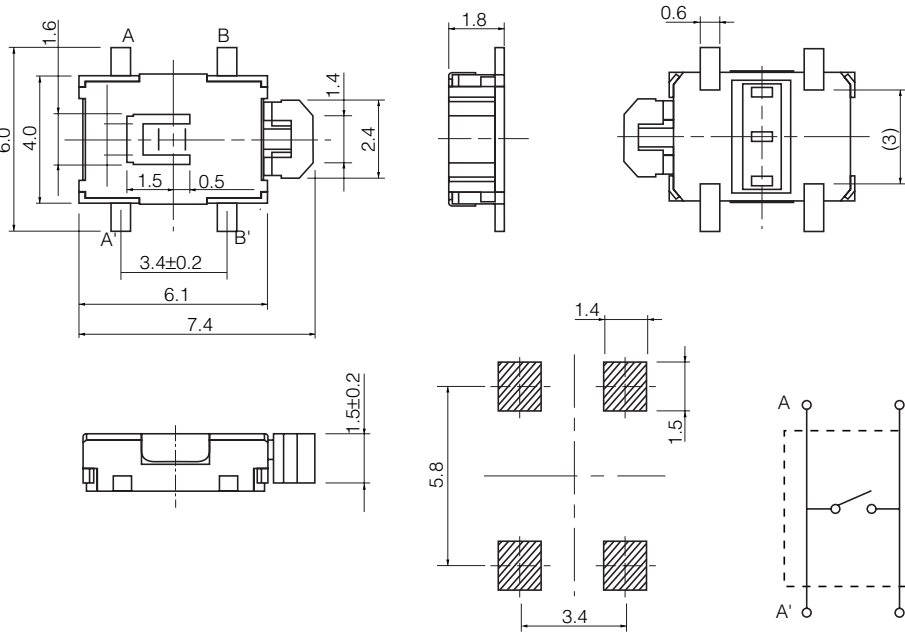
#### ■ Specifications

Type		Snap action / Push-on type SPST
Electrical	Rating	10 $\mu$ A 2 Vdc to 50 mA 12 Vdc (Resistiv load)
	Contact Resistance	500 m $\Omega$ max.
	Insulation Resistance	100 M $\Omega$ min. (at 100 Vdc)
	Dielectric Withstanding Voltage	250 Vac for 1 minute
	Bouncing	10 ms max. (ON, OFF)
Mechanical	Operating Force	1.6 N <sup>+0.7</sup> <sub>-0.4</sub> N      2.2 N <sup>+0.8</sup> <sub>-0.7</sub> N
	Travel	0.3 mm <sup>+0.1</sup> <sub>-0.2</sub> mm
	Push Strength	30 N for 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		4000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		16000 pcs.

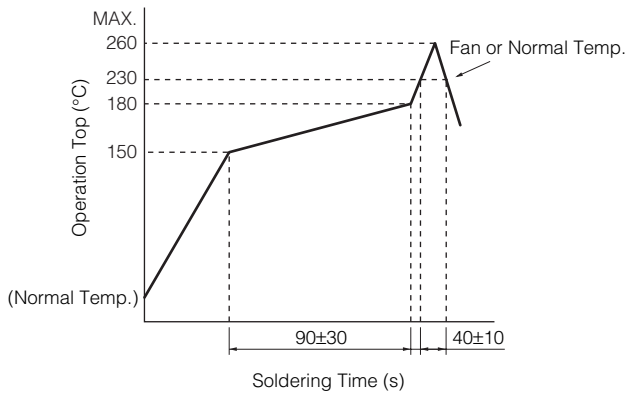
### ■ Dimensions in mm (not to scale)

<p>No. 1</p> <p>EVQPSD EVQPSH</p> <p>J-bent terminals, with Boss</p> 	 <p>PWB land pattern for reference (Tolerance:±0.1)</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>EVQPSD02K</p>	<p>1.6 N</p>	<p>1.8 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQPSH02K</p>	<p>2.2 N</p>	<p>1.8 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>No. 2</p> <p>EVQPSM EVQPSR</p> <p>Straight terminals, with Boss</p> 	 <p>PWB land pattern for reference (Tolerance:±0.1)</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>EVQPSM02K</p>	<p>1.6 N</p>	<p>1.8 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQPSR02K</p>	<p>2.2 N</p>	<p>1.8 mm</p>	<p>Black</p>	<p>100000 cycles</p>

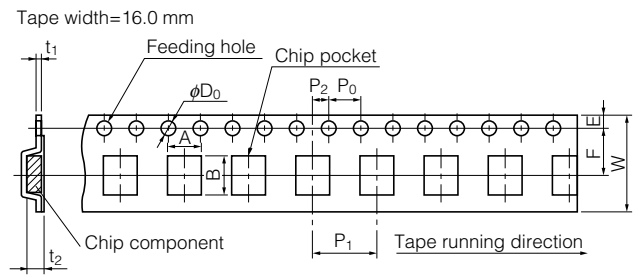
■ Dimensions in mm (not to scale)

<p>No. 3</p> <p>EVQPSC EVQPSG</p> <p>J-bent terminals, without Boss</p> 	 <p>PWB land pattern for reference (Tolerance:±0.1)</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>EVQPSC02K</p>	<p>1.6 N</p>	<p>1.8 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQPSG02K</p>	<p>2.2 N</p>	<p>1.8 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>No. 4</p> <p>EVQPSL EVQPSQ</p> <p>Straight terminals, without Boss</p> 	 <p>PWB land pattern for reference (Tolerance:±0.1)</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>EVQPSL02K</p>	<p>1.6 N</p>	<p>1.8 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQPSQ02K</p>	<p>2.2 N</p>	<p>1.8 mm</p>	<p>Black</p>	<p>100000 cycles</p>

### Recommended Reflow Soldering Conditions



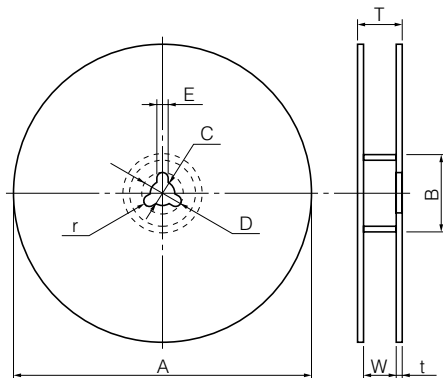
### Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	$P_1$	$P_2$	$P_0$	$D_0$ Dia.	$t_1$	$t_2$
EVQPS	1.8	$6.8 \pm 0.2$	$8.0 \pm 0.2$	$16.0 \pm 0.3$	$7.5 \pm 0.1$	$1.75 \pm 0.10$	$8.0 \pm 0.1$	$2.0 \pm 0.1$	$4.0 \pm 0.1$	$1.5^{+0.1}_{-0}$	$0.30 \pm 0.05$	$2.7 \pm 0.2$

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



Item	A	B	C	D	E
Rate (mm)	$\phi 370.0 \pm 2.0$	$\phi 50.0$ min.	$\phi 13.0 \pm 0.5$	$\phi 21.0 \pm 1.0$	$2.0 \pm 0.5$

Item	W	T	t	r
Rate (mm)	$18.0 \pm 1.5$	—	1.0 to 3.0	$1.0 \pm 0.5$

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