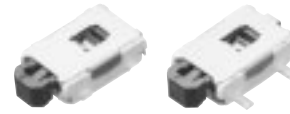


### 6.1 mm×4.0 mm Side-operational SMD Light Touch Switches

Type: **EVQPS**



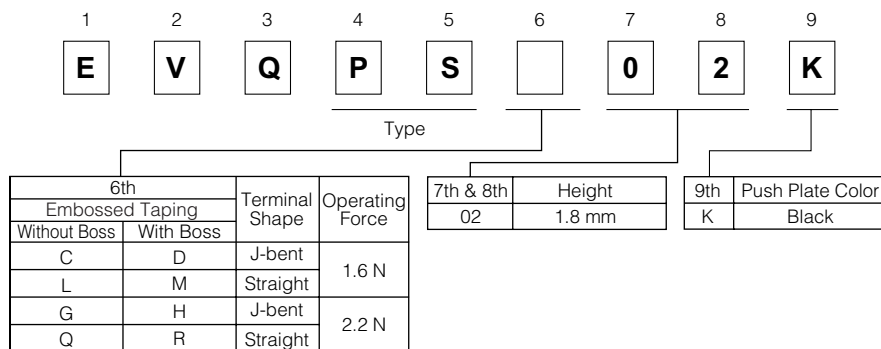
#### ■ Features

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

#### ■ Recommended Applications

- Car navigation, Car audio


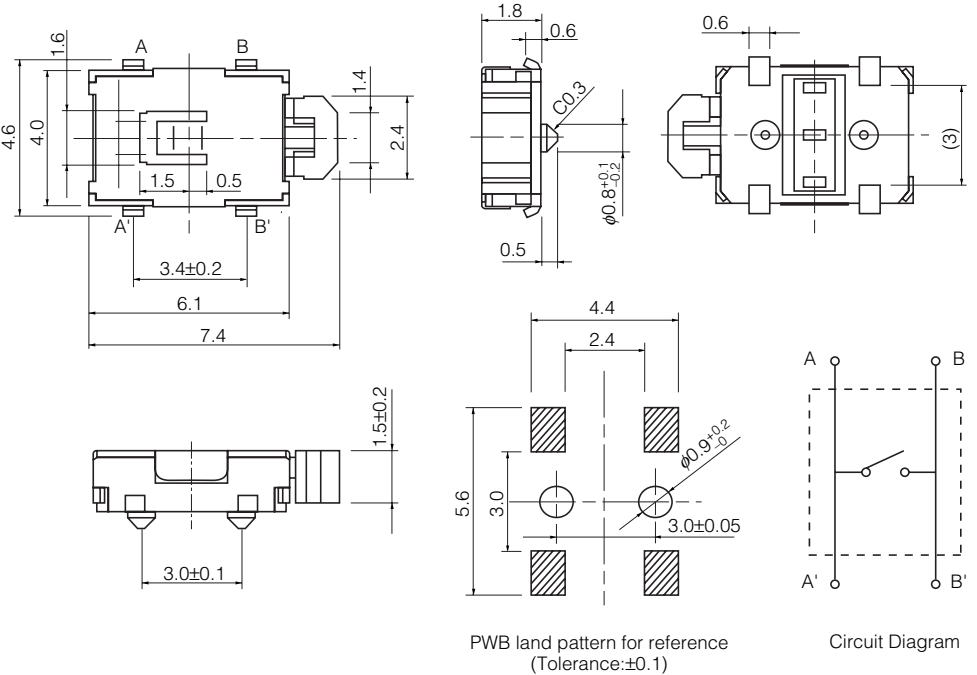

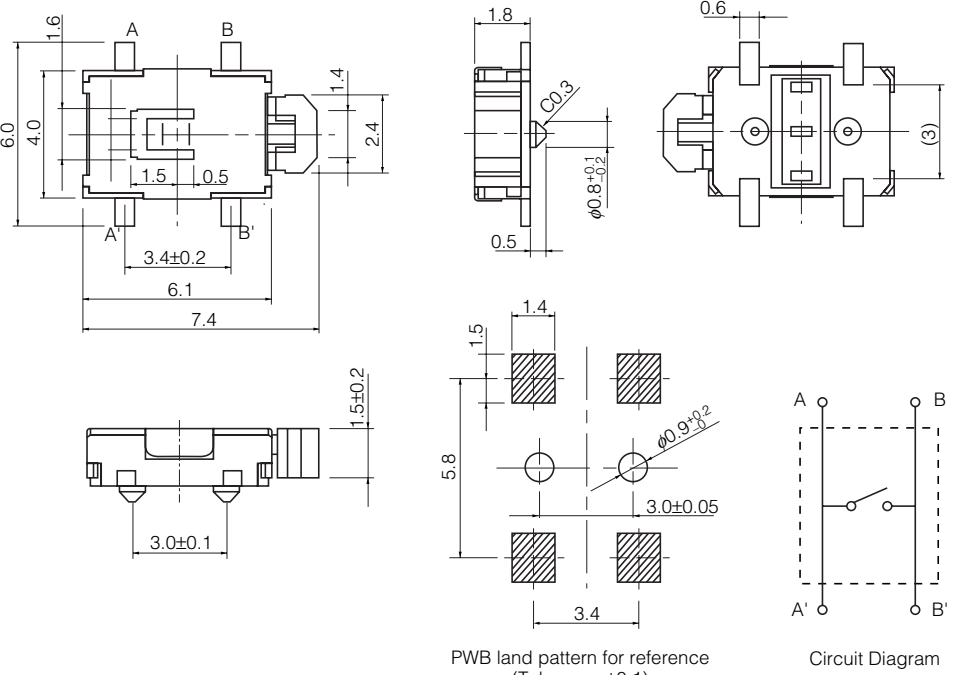
#### ■ Explanation of Part Numbers




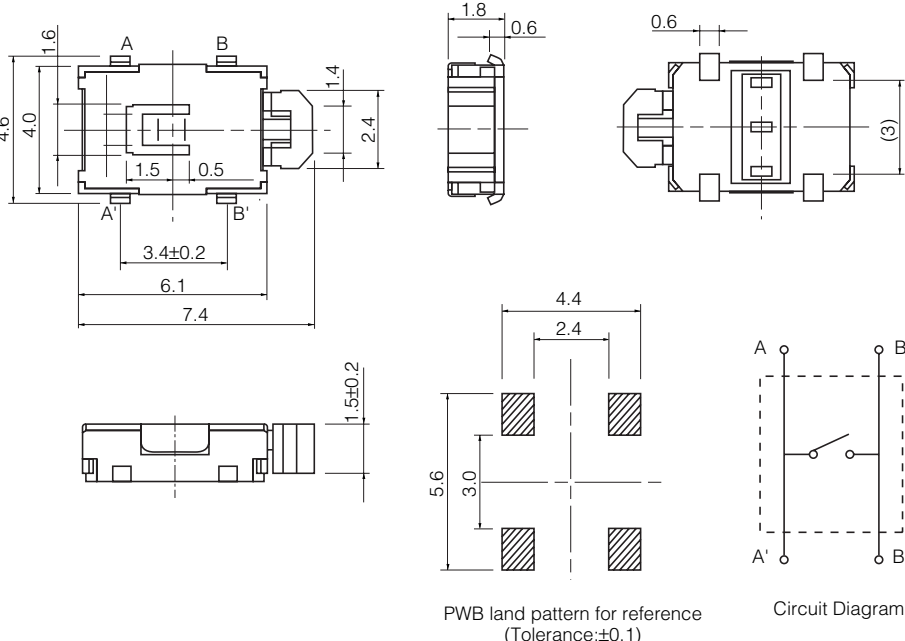

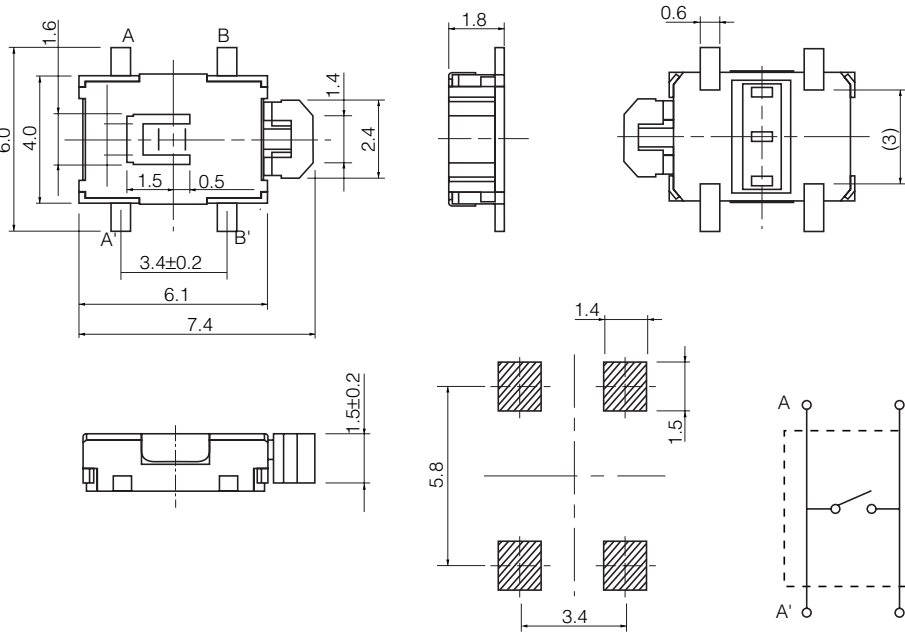
#### ■ Specifications

|                               |                                 |  |
|-------------------------------|---------------------------------|--|
| 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)<br>-20 °C to +60 °C (Taping)                                 |
| Minimum Quantity/Packing Unit |                                 | 4000 pcs. Embossed Taping (Reel Pack)  |
| Quantity/Carton               |                                 | 16000 pcs.   |

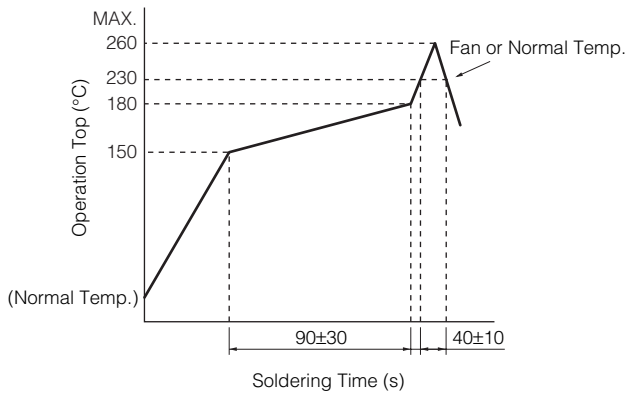
■ Dimensions in mm (not to scale)

|  |  |               |                         |                       |
|--|--|---------------|-------------------------|-----------------------|
| <p>No. 1</p> <p>EVQPSD<br/>EVQPSH</p> <p>J-bent terminals,<br/>with Boss</p>      |  <p>PWB land pattern for reference<br/>(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<br/>EVQPSR</p> <p>Straight terminals,<br/>with Boss</p>  |  <p>PWB land pattern for reference<br/>(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>  |

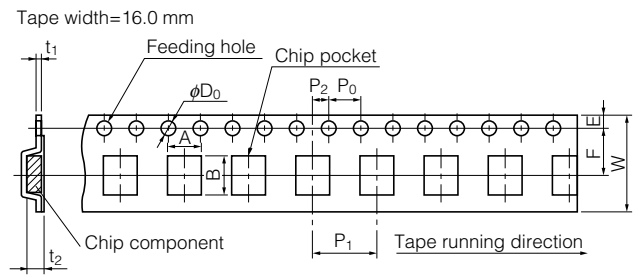
■ Dimensions in mm (not to scale)

|   |  |               |                         |                       |
|---|--|---------------|-------------------------|-----------------------|
| <p>No. 3</p> <p>EVQPSC<br/>EVQPSG</p> <p>J-bent terminals,<br/>without Boss</p>      |  <p>PWB land pattern for reference<br/>(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<br/>EVQPSQ</p> <p>Straight terminals,<br/>without Boss</p>  |  <p>PWB land pattern for reference<br/>(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



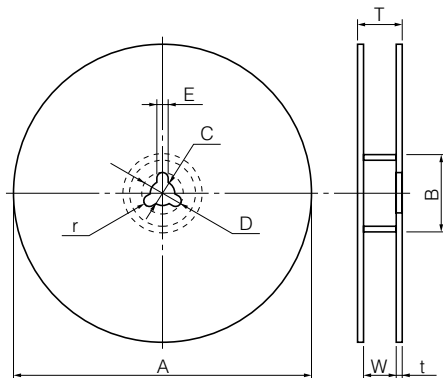
### Embossed Carrier Taping



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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