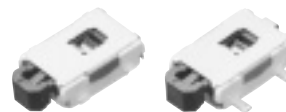


Side-operation Type Slim Light Touch Switches

Japan

Type: **EVQPS**



Compact and low profile of 7.4 mm×4.0 mm×1.8 mm (H)

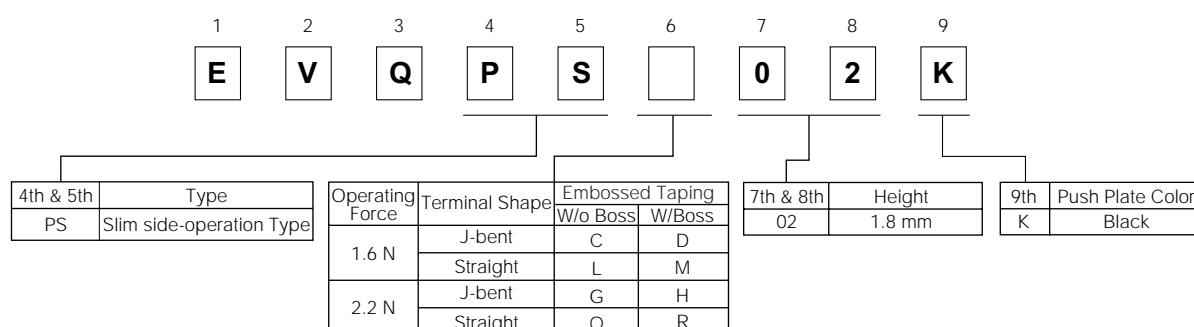
■ Features

- Long life (0.1 million cycles) and excellent operational feel due to miniaturized diaphragm
- 2 types of terminal shapes (straight and J-bent) available

■ Recommended Applications

- Signal input switches for mobile communication, audio/visual and OA equipment

■ Explanation of Part Numbers


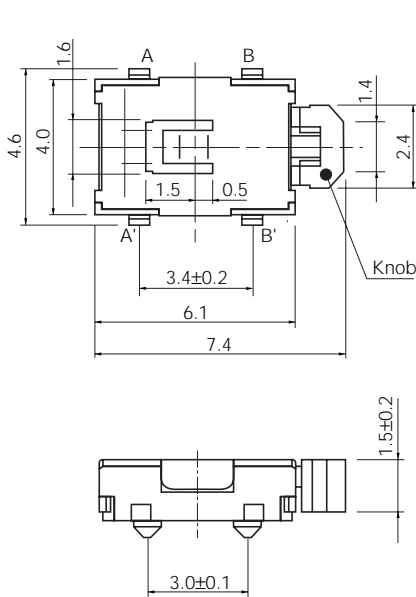
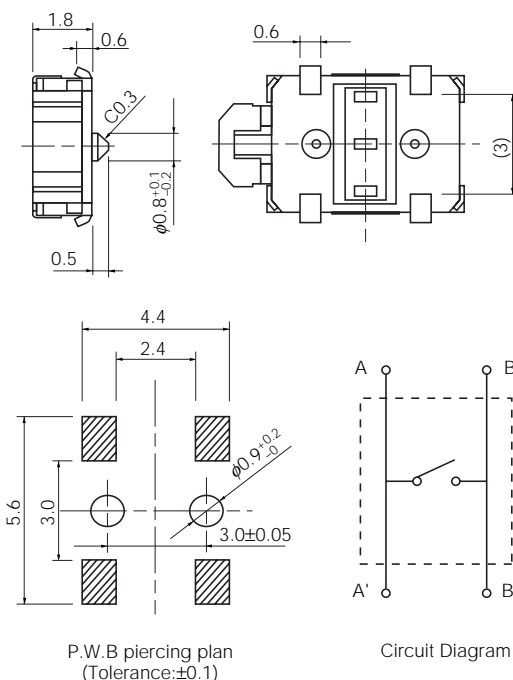

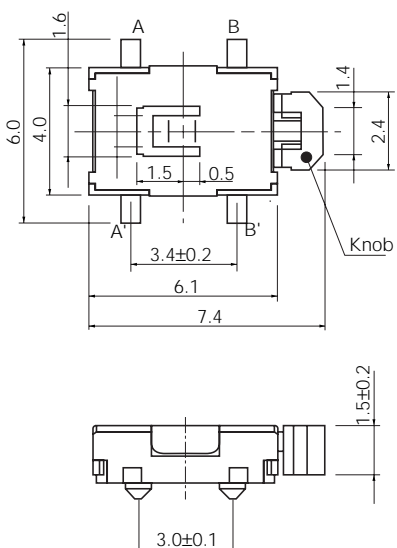
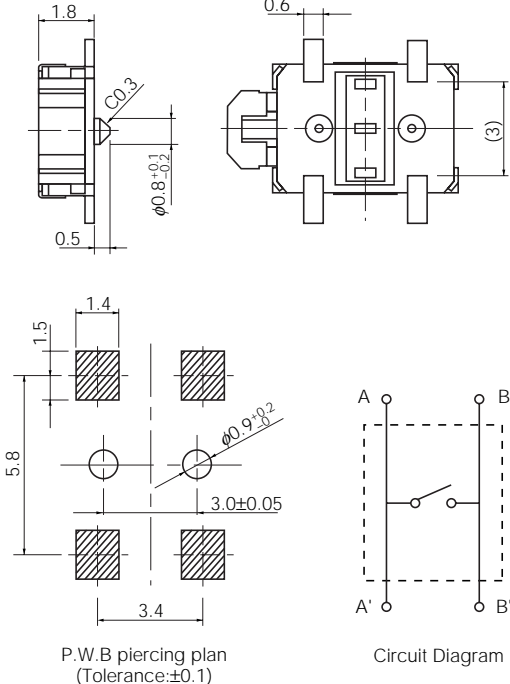


■ Specifications


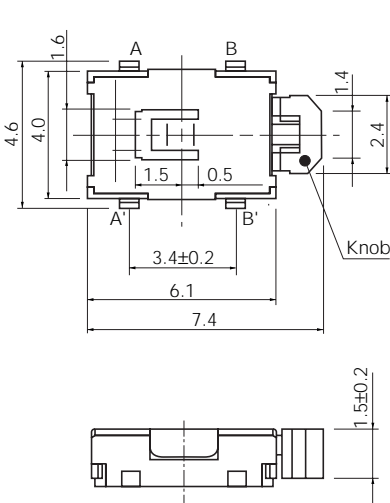
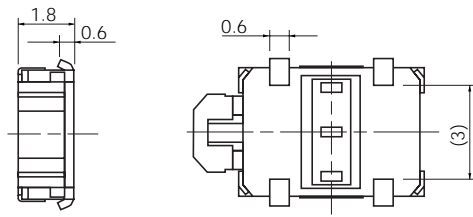
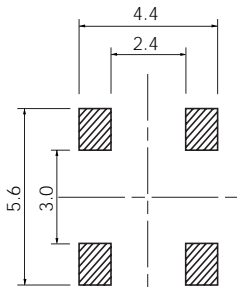
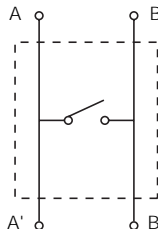
| Type | | Snap action / Push-on type SPST | |
|-------------------------------|---------------------------------|--|---|
| Electrical | Rating | 50 mA 12 Vdc max. (Resistiv load) | |
| | Contact Resistance | 500 mΩ max. | |
| | Insulation Resistance | 100 MΩ min. (at 100 Vdc) | |
| | Dielectric Withstanding Voltage | 250 Vac for 1 minute | |
| | Bouncing | 10 ms max. (ON, OFF) | |
| Mechanical | Operating Force | 1.6 N ^{+0.7} _{-0.4} N | 2.2 N ^{+0.8} _{-0.7} N |
| | Travel | 0.3 mm ^{+0.1} _{-0.2} mm | |
| | Push Strength | 30 N for 1 minute | |
| Endurance | Operating Life | 100000 cycles min. | |
| | Operating Temperature | -20 °C to +70 °C (45 % to 85 % RH) | |
| | 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. | |


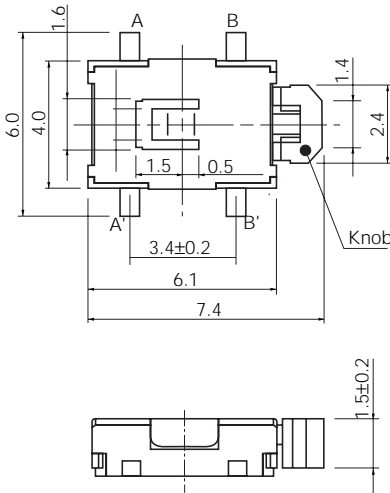
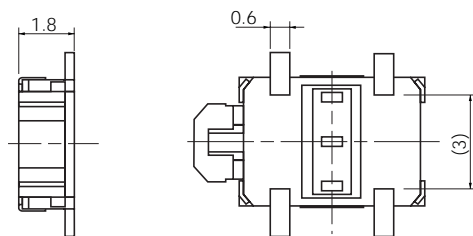
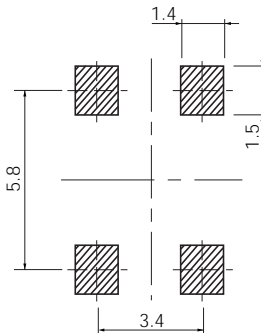
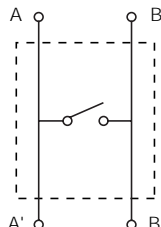
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

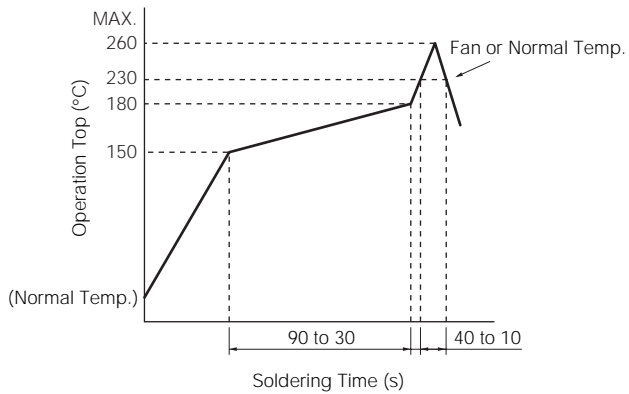
| | | | | | |
|---|--|---|--------|------------------|----------------|
| <div>No. 1</div> <div>EVQPSD EVQPSH</div> <div>J-bent terminals, with Boss</div> <div></div> | | <div></div> <div></div> <div>P.W.B piercing plan (Tolerance:±0.1)</div> <div>Circuit Diagram</div> | | | |
| Part Numbers | | Operating Force | Height | Push Plate Color | Operating Life |
| EVQPSD02K | | 1.6 N | 1.8 mm | Black | 100000 cycles |
| EVQPSH02K | | 2.2 N | 1.8 mm | Black | 100000 cycles |
| <div>No. 2</div> <div>EVQPSM EVQPSR</div> <div>Straight terminals, with Boss</div> <div></div> | | <div></div> <div></div> <div>P.W.B piercing plan (Tolerance:±0.1)</div> <div>Circuit Diagram</div> | | | |
| Part Numbers | | Operating Force | Height | Push Plate Color | Operating Life |
| EVQPSM02K | | 1.6 N | 1.8 mm | Black | 100000 cycles |
| EVQPSR02K | | 2.2 N | 1.8 mm | Black | 100000 cycles |

■ Dimensions in mm (not to scale)

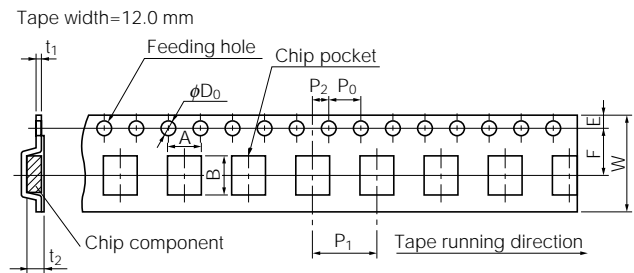
| | | | | |
|--|-----------------|--|------------------|----------------|
| <div>No. 3</div> <div>EVQPSC EVQPSG</div> <div>J-bent terminals, without Boss</div> <div></div> | | <div></div> <div></div> <div></div> <div><p>P.W.B piercing plan (Tolerance:±0.1)</p></div> <div></div> <div><p>Circuit Diagram</p></div> | | |
| Part Numbers | Operating Force | Height | Push Plate Color | Operating Life |
| EVQPSC02K | 1.6 N | 1.8 mm | Black | 100000 cycles |
| EVQPSG02K | 2.2 N | 1.8 mm | Black | 100000 cycles |

| | | | | |
|--|-----------------|--|------------------|----------------|
| <div>No. 4</div> <div>EVQPSL EVQPSQ</div> <div>Straight terminals, without Boss</div> <div></div> | | <div></div> <div></div> <div></div> <div><p>P.W.B piercing plan (Tolerance:±0.1)</p></div> <div></div> <div><p>Circuit Diagram</p></div> | | |
| Part Numbers | Operating Force | Height | Push Plate Color | Operating Life |
| EVQPSL02K | 1.6 N | 1.8 mm | Black | 100000 cycles |
| EVQPSQ02K | 2.2 N | 1.8 mm | Black | 100000 cycles |

■ Recommended Reflow Soldering Conditions



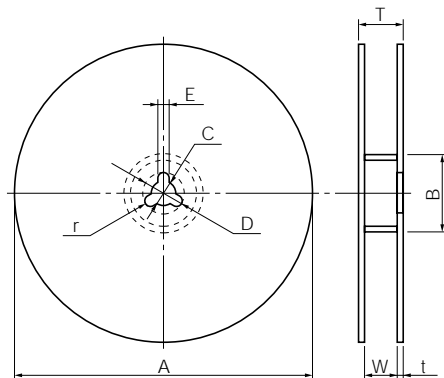
● Embossed Carrier Taping



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 ± 0.2 | 8.0 ± 0.2 | 16.0 ± 0.3 | 7.5 ± 0.1 | 1.75 ± 0.10 | 8.0 ± 0.1 | 2.0 ± 0.1 | 4.0 ± 0.1 | $1.5^{+0.1}_{-0}$ | 0.30 ± 0.05 | 2.7 ± 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 ± 0.5 |
| Item | W | T | t | r | |
| Rate (mm) | 18.0 ± 1.5 | — | 1.0 to 3.0 | 1.0 ± 0.5 | |