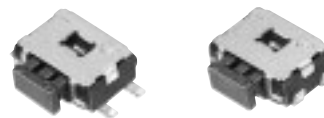


Small-sized Side-operational SMD Light Touch Switches

Type: **EVQPU**



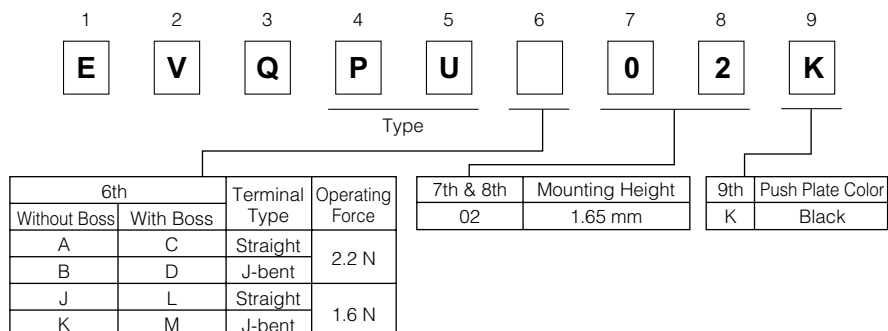
■ Features

- External dimensions : 4.7 mm×3.5 mm, Height 1.65 mm
- A wide range of terminal type : J-bent, Straight

■ Recommended Applications

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

■ Explanation of Part Numbers


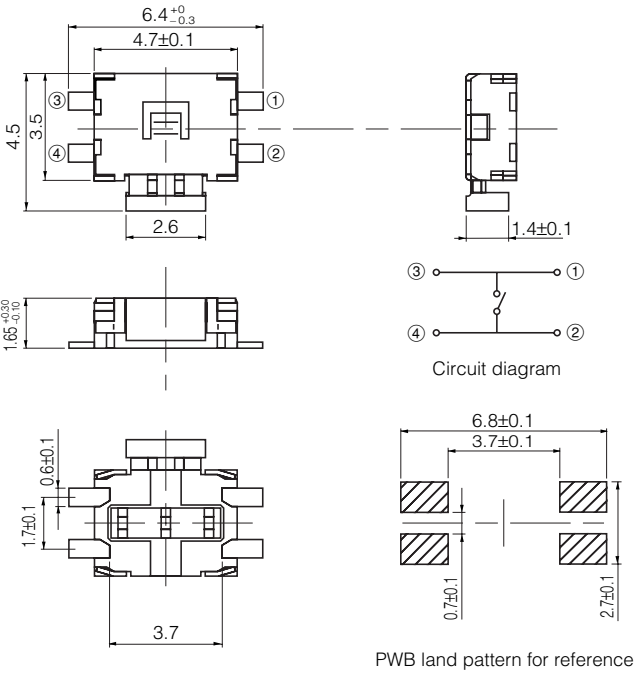

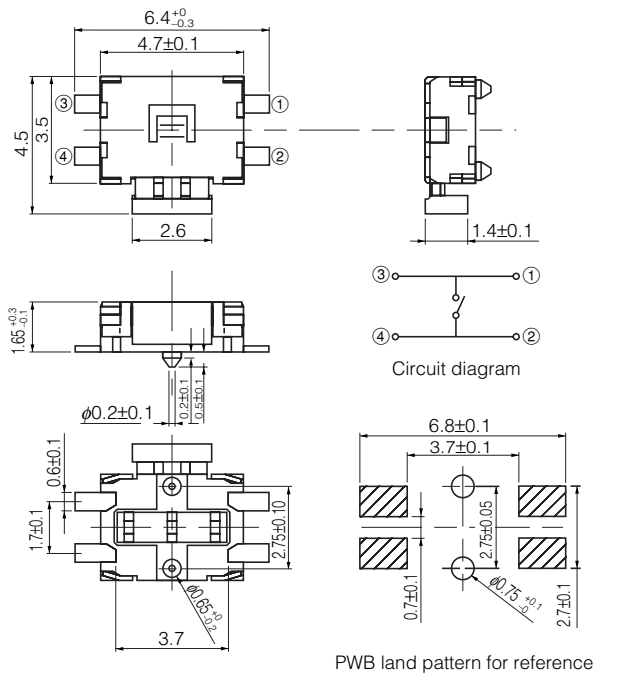


■ Specifications

| | | | |
|-------------------------------|---------------------------------|--|---|
| Type | | Snap action / Push-on type SPST | |
| Electrical | Rating | 10 μA 2 Vdc to 50 mA 12 Vdc (Resistive 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 (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 | | 20000 pcs. | |

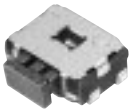
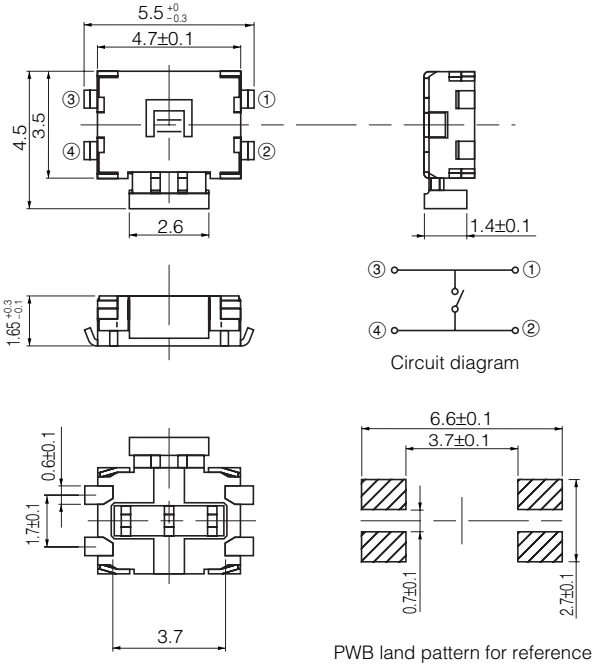

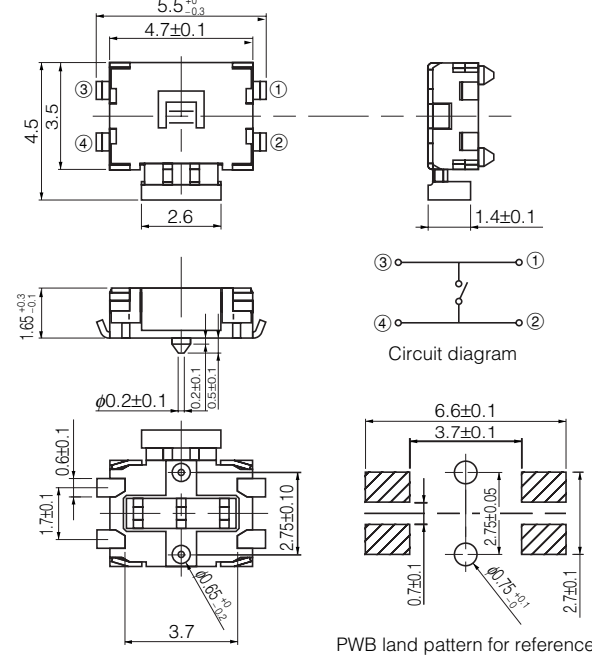
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

| | | | | |
|--|--|----------------|-------------------------|-----------------------|
| <p>No. 1</p> <p>EVQPUJ EVQPUA</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>EVQPUJ02K</p> | <p>1.6 N</p> | <p>1.65 mm</p> | <p>Black</p> | <p>100000 cycles</p> |
| <p>EVQPUA02K</p> | <p>2.2 N</p> | <p>1.65 mm</p> | <p>Black</p> | <p>100000 cycles</p> |
| <p>No. 2</p> <p>EVQPUL EVQPUC</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>EVQPUL02K</p> | <p>1.6 N</p> | <p>1.65 mm</p> | <p>Black</p> | <p>100000 cycles</p> |
| <p>EVQPUC02K</p> | <p>2.2 N</p> | <p>1.65 mm</p> | <p>Black</p> | <p>100000 cycles</p> |

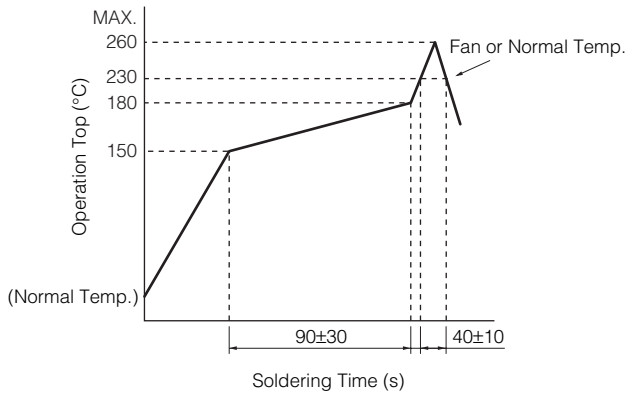
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■ Dimensions in mm (not to scale)

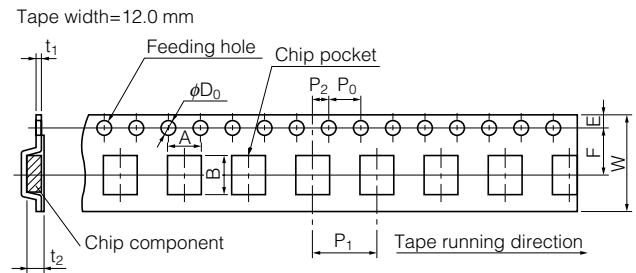
| | | | | |
|---|--|----------------|-------------------------|-----------------------|
| <p>No. 3</p> <p>EVQPUK EVQPUB</p> <p>(Embossed Taping)</p> <p>With J-bent terminals Without boss</p>  |  | | | |
| <p>Part Numbers</p> | <p>Operating Force</p> | <p>Height</p> | <p>Push Plate Color</p> | <p>Operating Life</p> |
| <p>EVQPUK02K</p> | <p>1.6 N</p> | <p>1.65 mm</p> | <p>Black</p> | <p>100000 cycles</p> |
| <p>EVQPUB02K</p> | <p>2.2 N</p> | <p>1.65 mm</p> | <p>Black</p> | <p>100000 cycles</p> |
| <p>No. 4</p> <p>EVQPUM EVQPUD</p> <p>(Embossed Taping)</p> <p>With J-bent 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>EVQPUM02K</p> | <p>1.6 N</p> | <p>1.65 mm</p> | <p>Black</p> | <p>100000 cycles</p> |
| <p>EVQPUD02K</p> | <p>2.2 N</p> | <p>1.65 mm</p> | <p>Black</p> | <p>100000 cycles</p> |

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
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■ Recommended Reflow Soldering Conditions



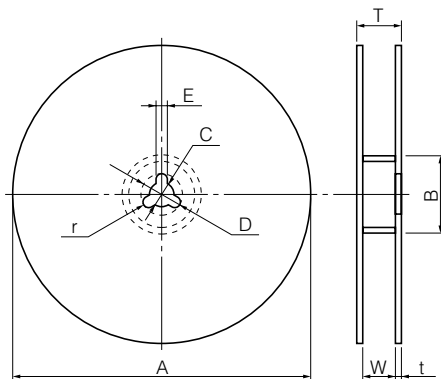
● Embossed Carrier Taping



Unit: mm

| Part No. | Height | A | B | W | F | E | P_1 | P_2 | P_0 | D_0 Dia. | t_1 | t_2 |
|----------|--------|---------------|-----------------|----------------|-----------------|-----------------|---------------|---------------|---------------|-------------------|-----------------|---------------|
| EVQPU | 1.65 | 7.0 ± 0.2 | 5.75 ± 0.20 | 12.0 ± 0.3 | 5.78 ± 0.20 | 1.75 ± 0.10 | 8.0 ± 0.1 | 2.0 ± 0.1 | 4.0 ± 0.1 | $1.5_{-0}^{+0.1}$ | 0.35 ± 0.05 | 2.4 ± 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) | 14.0 ± 1.5 | — | 1.0 to 3.0 | 1.0 ± 0.5 |