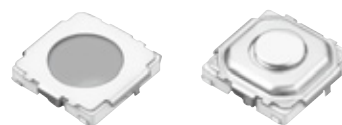


## 4.9 mm Square SMD Light Touch Switches

Type: **EVQPL/EVQ3PL**  
**EVQ5PL/EVQPT**



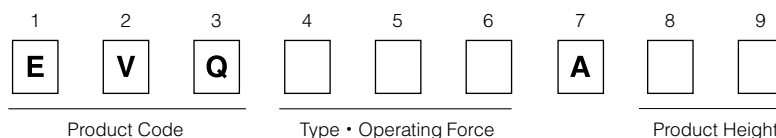
### ■ Features

- External dimensions : 4.9 mm×4.9 mm,  
Height: 0.8 mm(Without push plate), 1.5 mm(With push plate)

### ■ Recommended Applications

- Operation switches for portable electronic equipment  
(Notebook PC, Camcorders, Portable audio players, etc.)
- Operation switches for car audio systems

### ■ Explanation of Part Numbers



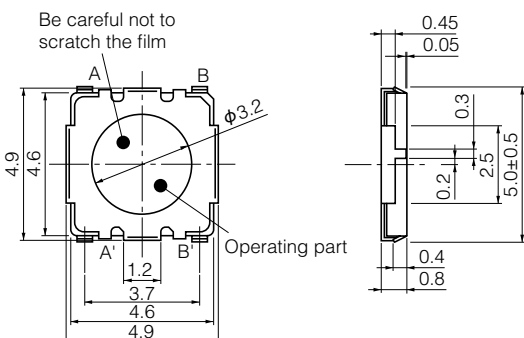
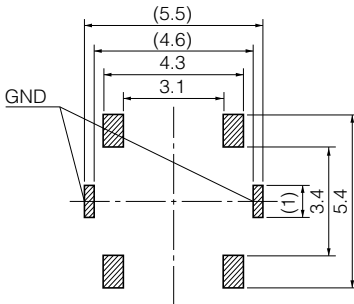
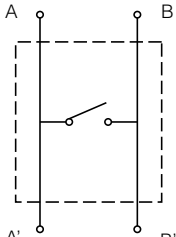
### ■ Specifications

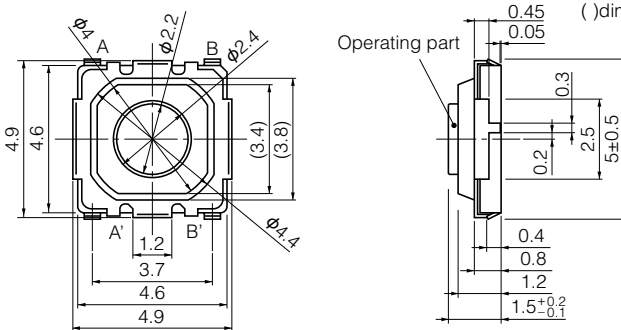
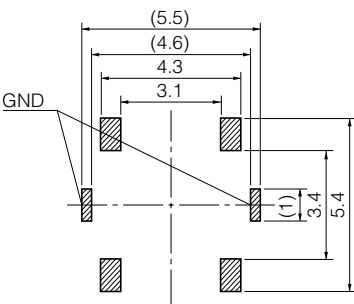
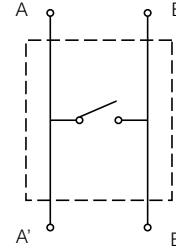
| Type                          |                                 | Snap action/Push-on type SPST                        |                                        |
|-------------------------------|---------------------------------|------------------------------------------------------|----------------------------------------|
| Electrical                    | Rating                          | 10 $\mu$ A 2 V DC to 20 mA 15 V DC (Resistive load)  |                                        |
|                               | Contact Resistance              | 50 m $\Omega$ max.                                   |                                        |
|                               | Insulation Resistance           | 50 M $\Omega$ min. (at 100 V DC)                     |                                        |
|                               | Dielectric Withstanding Voltage | 250 V AC for 1 minute                                |                                        |
|                               | Bouncing                        | 3 ms max. (ON)<br>8 ms max. (OFF)                    |                                        |
| Mechanical                    | Operating Force                 | 1.0 N $\pm$ 0.5 N<br>1.6 N $\pm$ 0.5 N               | 2.6 N $\pm$ 0.6 N<br>3.5 N $\pm$ 1.0 N |
|                               | Travel                          | 0.25 mm <sup>+0.10</sup> <sub>-0.20</sub> mm         |                                        |
| Endurance                     | Operating Life                  | 500,000 cycles min.                                  | 200,000 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 |                                 | 5,000 pcs. Embossed Taping (Reel Pack)               |                                        |
| Quantity/Carton               |                                 | 25,000 pcs.                                          |                                        |

Note: Non washable

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.

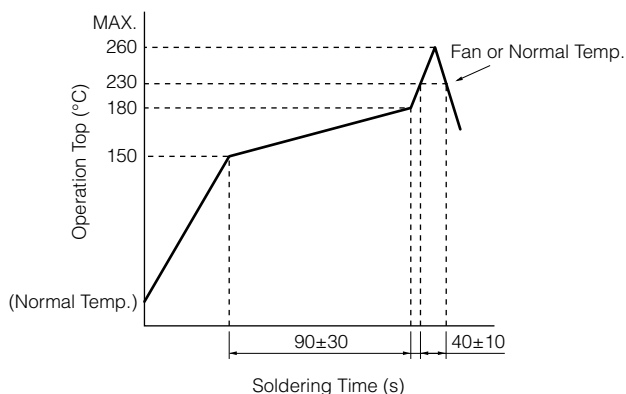
### ■ Dimensions in mm (not to scale)

|                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|
| <div>No. 1</div> <div>EVQPLF<br/>EVQPLK<br/>EVQ5PL</div> <div>(Embossed Taping)</div> <div>Surface mount<br/>For reflow soldering<br/>Without push plate</div> <div></div> |  | <div><div>Be careful not to scratch the film</div><div>General dimension tolerance : <math>\pm 0.2</math><br/>( ) dimensions are reference dimensions.</div><div>PWB land pattern for reference</div><div>Circuit diagram</div></div> |        |                |
| Part Numbers                                                                                                                                                                                                                                                |  | Operating Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Height | Operating Life |
| EVQPLFA08                                                                                                                                                                                                                                                   |  | 1.6 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.8 mm | 500,000 cycles |
| EVQPLKA08                                                                                                                                                                                                                                                   |  | 2.6 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.8 mm | 200,000 cycles |
| EVQ5PLA08                                                                                                                                                                                                                                                   |  | 3.5 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.8 mm | 200,000 cycles |

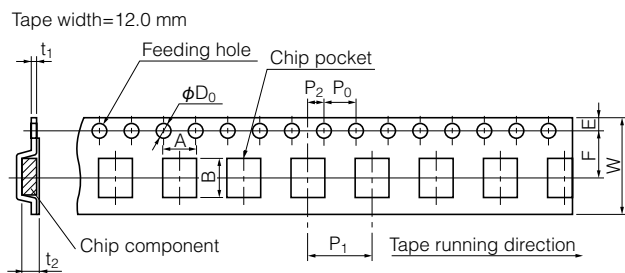
|                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------|
| <div>No. 2</div> <div>EVQPLD/PT5<br/>EVQPLH/PT9<br/>EVQPLM<br/>EVQ3PL</div> <div>(Embossed Taping)</div> <div>Surface mount<br/>For reflow soldering<br/>With push plate</div> <div></div> |  | <div><div>General dimension tolerance : <math>\pm 0.2</math><br/>( ) dimensions are reference dimensions.</div><div>Operating part</div><div>PWB land pattern for reference</div><div>Circuit diagram</div></div> |        |                          |
| Part Numbers                                                                                                                                                                                                                                                                  |  | Operating Force                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Height | Operating Life           |
| EVQPLDA15/PT5A15                                                                                                                                                                                                                                                              |  | 1.0 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5 mm | 500,000/2,000,000 cycles |
| EVQPLHA15/PT9A15                                                                                                                                                                                                                                                              |  | 1.6 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5 mm | 500,000/2,000,000 cycles |
| EVQPLMA15                                                                                                                                                                                                                                                                     |  | 2.6 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5 mm | 200,000 cycles           |
| EVQ3PLA15                                                                                                                                                                                                                                                                     |  | 3.5 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5 mm | 200,000 cycles           |

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### ■ Recommended Reflow Soldering Conditions



### ● Embossed Carrier Taping



Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.

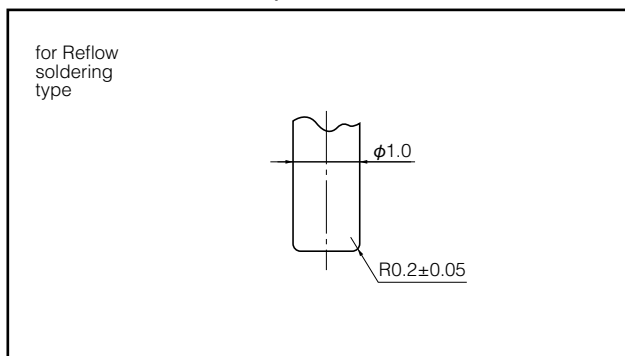
Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.

Joint of carrier tape : One joint per one reel may exist.

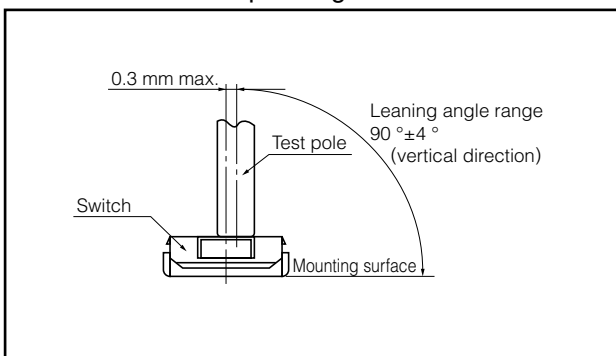
Unit: mm

| 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> |
|------------------------------------|---------|---------|---------|----------|---------|-----------|----------------|----------------|----------------|-----------------------------------|----------------|----------------|
| EVQPL<br>EVQ3PL<br>EVQ5PL<br>EVQPT | 0.8/1.5 | 5.0±0.2 | 5.0±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> | 0.35±0.1       | 1.0/1.7±0.2    |

### ■ Recommended Shape of Test Pole



### ■ Recommended Operating Conditions



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Please refer to "the latest product specifications" when designing your product.

Requests to customers :

<https://industrial.panasonic.com/ac/e/salespolicies/>

## Safety Precautions

When using our products, no matter what sort of equipment they might be used for, be sure to confirm the applications and environmental conditions with our specifications in advance.

Please contact .....

**Panasonic Corporation**

Electromechanical Control Business Division

■ 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8506, Japan  
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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
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- Входной контроль качества.
- Наличие сертификата ISO.

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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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