

### 3.5 mm×2.9 mm Side-operational Half Dive /SMD Light Touch Switches

Type: **EVPAN**



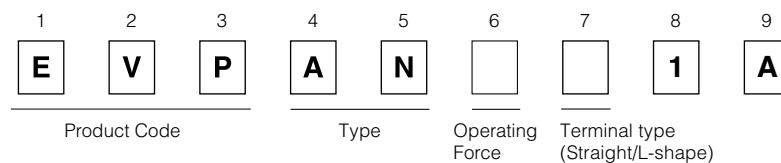
#### ■ Features

- External dimensions : 3.5 mm×2.9 mm (Excluding the push plate), Height 1.2 mm
- Printed circuit board being as low as 0.7 mm
- High mount ability

#### ■ Recommended Applications

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

#### ■ Explanation of Part Numbers

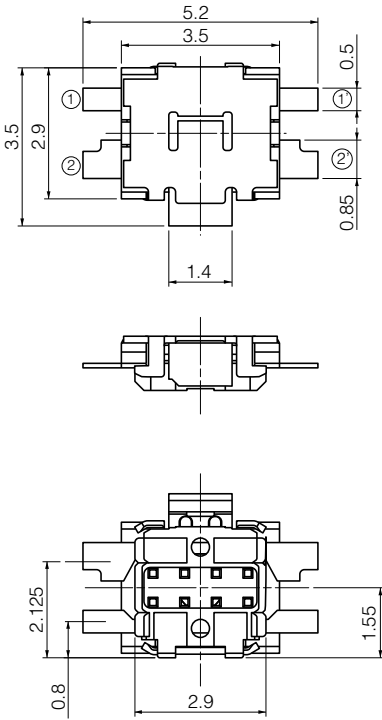
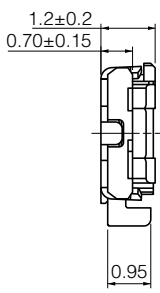
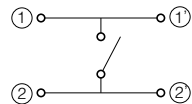
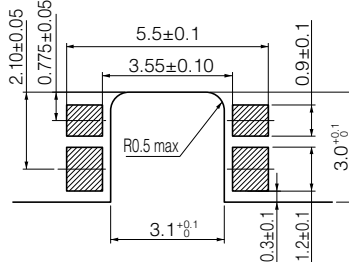


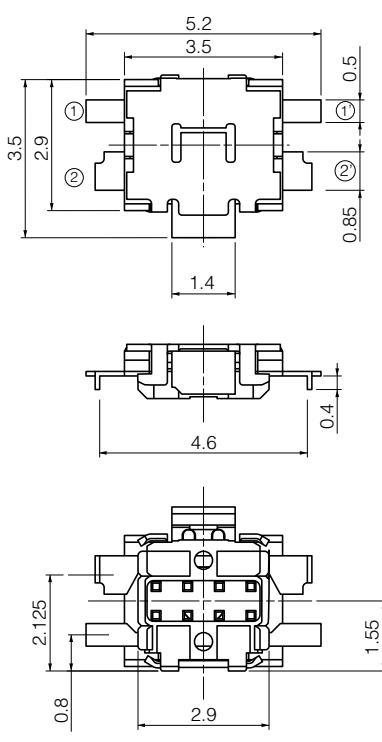
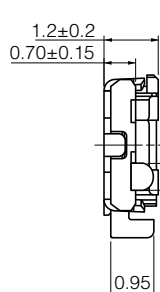
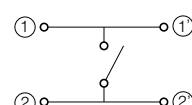
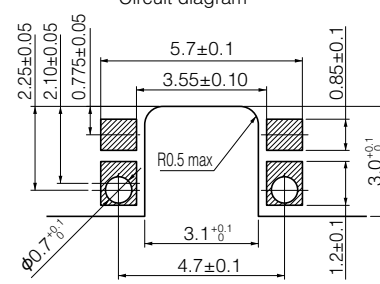
#### ■ Specifications

| Type                          |                                 | Snap action / Push-on type SPST                     |
|-------------------------------|---------------------------------|-----------------------------------------------------|
| Electrical                    | Rating                          | 10 $\mu$ A 2 V DC to 50 mA 12 V DC (Resistive load) |
|                               | Contact Resistance              | 500 m $\Omega$ max.                                 |
|                               | Insulation Resistance           | 100 M $\Omega$ min. (at 100 V DC)                   |
|                               | Dielectric Withstanding Voltage | 250 V AC for 1 minute                               |
|                               | Bouncing                        | 10 ms max. (ON, OFF)                                |
| Mechanical                    | Operating Force                 | 1.6 N, 2.2 N                                        |
|                               | Push Travel                     | 0.2 mm                                              |
|                               | Push Strength                   | 70 N (1 minute)                                     |
| Endurance                     | Operating Life                  | 100,000 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 |                                 | 7,000 pcs. Embossed Taping (Reel Pack)              |
| Quantity/Carton               |                                 | 35,000 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.

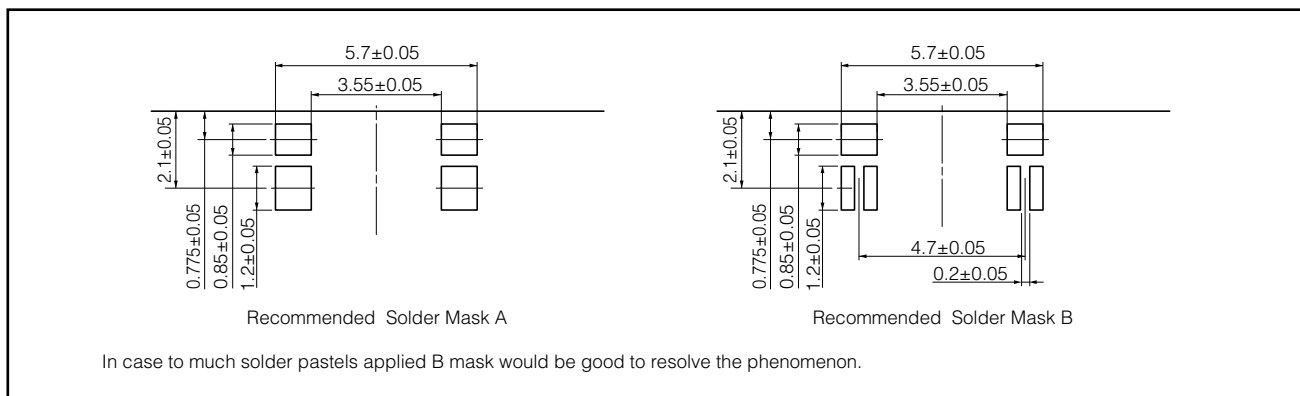
### ■ Dimensions in mm (not to scale)

|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                  |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|----------------|
| <div>EVPANA<br/>EVPAND</div> <div>(Embossed Taping)</div> <div>Straight terminals</div> <div></div> | <div></div> <div></div> <div>General dimension tolerance : ± 0.2<br/>( ) dimensions are reference dimensions.</div> <div></div> <div>Circuit diagram</div> <div></div> <div>PWB land pattern for reference</div> |        |                  |                |
| Part Numbers                                                                                                                                                                         | Operating Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Height | Push Plate Color | Operating Life |
| EVPANAA1A                                                                                                                                                                            | 1.6 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.7 mm | Black            | 100,000 cycles |
| EVPANDA1A                                                                                                                                                                            | 2.2 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.7 mm | Black            | 100,000 cycles |
| EVPANBA1A                                                                                                                                                                            | 1.6 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.7 mm | Black            | 500,000 cycles |

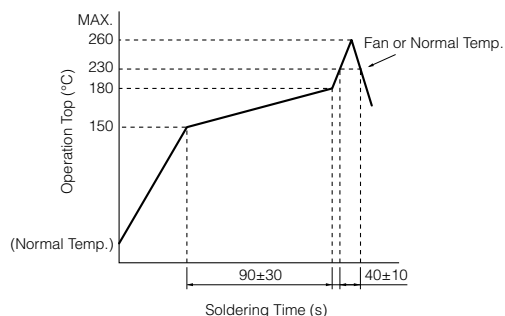
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|----------------|
| <div>EVPAND<br/>EVPANB</div> <div>(Embossed Taping)</div> <div>L-shape terminals</div> <div></div> | <div></div> <div></div> <div>General dimension tolerance : ± 0.2<br/>( ) dimensions are reference dimensions.</div> <div></div> <div>Circuit diagram</div> <div></div> <div>PWB land pattern for reference</div> |        |                  |                |
| Part Numbers                                                                                                                                                                          | Operating Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Height | Push Plate Color | Operating Life |
| EVPANDE1A                                                                                                                                                                             | 2.2 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.7 mm | Black            | 100,000 cycles |
| EVPANBE1A                                                                                                                                                                             | 1.6 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.7 mm | Black            | 500,000 cycles |

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## ■ Recommended Solder Mask

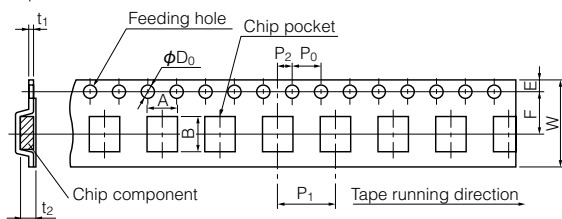


## ■ Recommended Reflow Soldering Conditions



## ● Embossed Carrier Taping

Tape width=12.0 mm



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.

## ● Straight terminals

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> |
|----------|--------|---------|---------|----------|---------|-----------|----------------|----------------|----------------|-----------------------------------|----------------|----------------|
| EVPAN    | 1.2    | 5.6±0.2 | 4.5±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> | 0.3±0.1        | 1.35±0.20      |

## Requests to customers

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  
[industrial.panasonic.com/ac/e/](https://industrial.panasonic.com/ac/e/)

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# Mouser Electronics

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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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- Специальные условия для постоянных клиентов.
- 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.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
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- Изготовление тестовой платы монтаж и пусконаладочные работы.



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