

### 3.5 mm×2.9 mm SMD Light Touch Switches

Type: **EVPA**



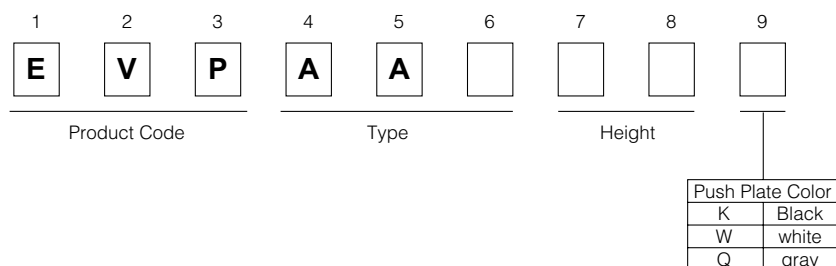
#### ■ Features

- External dimensions : 3.5 mm×2.9 mm, Height 1.7 mm
- High operating force available  
(Operating force : 5.0 N max.)
- Optional ground terminal

#### ■ Recommended Applications

- Operation switches for portable electronic equipment  
(Mobile phones, Digital still cameras, etc.)
- Operating switches for keyless entry systems

#### ■ Explanation of Part Numbers



#### ■ Specifications

| Type                          |                                 | Snap action/Push-on type SPST                                                                         |
|-------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------|
| Electrical                    | Rating                          | 10 $\mu$ A 2 Vdc to 20 mA 15 Vdc (Resistive load)                                                     |
|                               | Contact Resistance              | 100 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                 | 1.0 N, 1.6 N, 2.4 N, 3.5 N, 5.0 N                                                                     |
|                               | Travel                          | 0.15 mm±0.1 mm                                                                                        |
| Endurance                     | Operating Life                  | 1000000 cycles min. (1.0 N)<br>200000 cycles min. (1.6 N, 2.4 N, 3.5 N)<br>100000 cycles min. (5.0 N) |
| Operating Temperature         |                                 | −40 °C to +85 °C                                                                                      |
| Storage Temperature           |                                 | −40 °C to +85 °C (Bulk)<br>−20 °C to +60 °C (Taping)                                                  |
| Minimum Quantity/Packing Unit |                                 | 5000 pcs. Embossed Taping (Reel Pack)                                                                 |
| Quantity/Cartron              |                                 | 25000 pcs.                                                                                            |

Note: Non washable

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Should a safety concern arise regarding this product, please be sure to contact us immediately.

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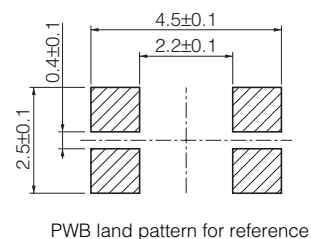
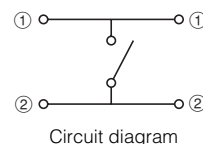
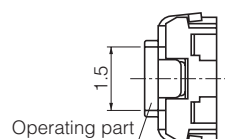
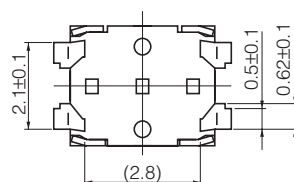
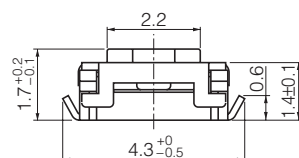
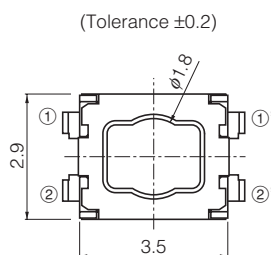
### ■ Dimensions in mm (not to scale)

#### EVPAA

(Embossed Taping)

Thickness : 1.7 mm

With J-bent terminals

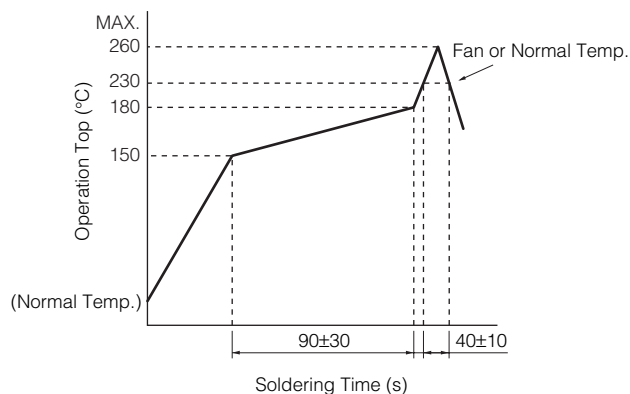


| Part Numbers | Ground Terminal | Operating Force | Push Plate Color | Operating Life |
|--------------|-----------------|-----------------|------------------|----------------|
| EVPAA002K    | Without         | 1.0 N           | Black            | 1000000 cycles |
| EVPAA102K    | With            | 1.0 N           | Black            | 1000000 cycles |
| EVPAA202K    | Without         | 1.6 N           | Black            | 200000 cycles  |
| EVPAA302K    | With            | 1.6 N           | Black            | 200000 cycles  |
| EVPAA402W    | Without         | 2.4 N           | White            | 200000 cycles  |
| EVPAA502W    | With            | 2.4 N           | White            | 200000 cycles  |
| EVPAA602W    | Without         | 3.5 N           | White            | 200000 cycles  |
| EVPAA702W    | With            | 3.5 N           | White            | 200000 cycles  |
| EVPAA802Q    | Without         | 5.0 N           | Grey             | 100000 cycles  |
| EVPAA902Q    | With            | 5.0 N           | Grey             | 100000 cycles  |

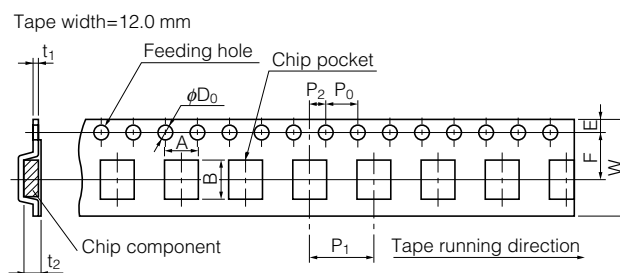
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### ■ Recommended Reflow Soldering Conditions



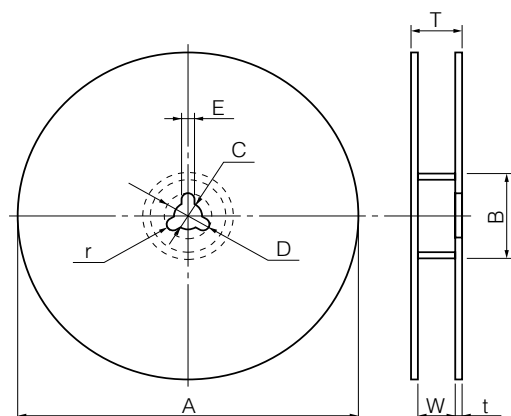
### ● Embossed Carrier Taping



Unit: mm

| Part No. | Height | A       | B       | W        | F       | E         | P1      | P2      | P0      | D0 Dia                            | t1      | t2        |
|----------|--------|---------|---------|----------|---------|-----------|---------|---------|---------|-----------------------------------|---------|-----------|
| EVPAA    | 1.7    | 4.5±0.2 | 3.8±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 | 1.85±0.20 |

### ● Standard Reel Dimensions in mm (not to scale)

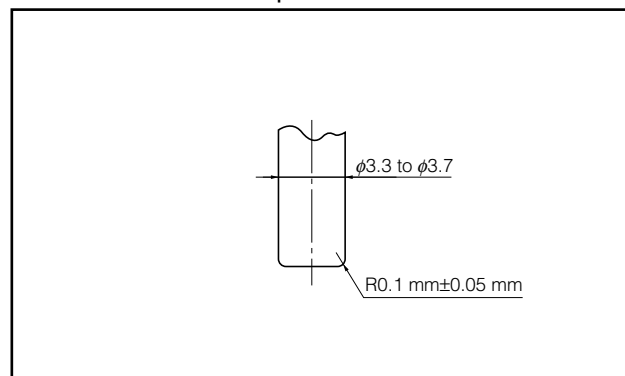


| Item      | A          | B         | C         | D         | E       |
|-----------|------------|-----------|-----------|-----------|---------|
| Rate (mm) | φ380.0±2.0 | φ80.0±1.0 | φ13.0±0.5 | φ21.0±1.0 | 2.0±0.5 |

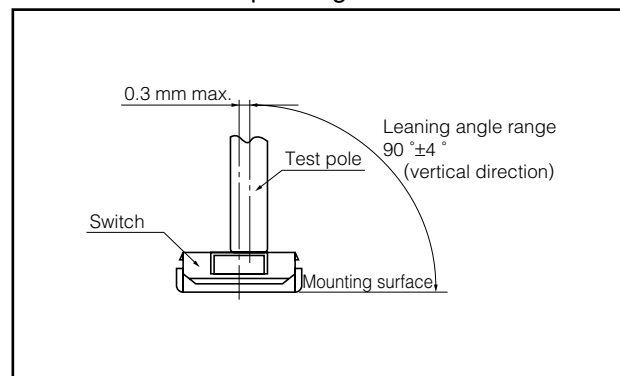
  

| Item      | W        | T        | t | r |
|-----------|----------|----------|---|---|
| Rate (mm) | 13.5±1.0 | 17.5±1.0 | — | — |

### ■ Recommended Shape of Test Pole



### ■ Recommended Operating Conditions



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