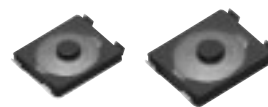


## 3.0 mm×2.6 mm SMD Light Touch Switches

Type: **EVPAF**



### ■ Features

- External dimensions: 3.0 mm×2.6 mm, Height 0.65 mm
- High operability  
Equipped with an actuator (push plate)
- Low temperature use

### ■ Recommended Applications

- Operation switches for portable electronic equipment  
(Mobile phone, Portable audio)

### ■ Explanation of Part Numbers

|              |          |          |          |          |   |        |   |   |
|--------------|----------|----------|----------|----------|---|--------|---|---|
| 1            | 2        | 3        | 4        | 5        | 6 | 7      | 8 | 9 |
| <b>E</b>     | <b>V</b> | <b>P</b> | <b>A</b> | <b>F</b> |   |        |   |   |
| Product Code |          |          | Type     |          |   | Height |   |   |

### ■ Specifications

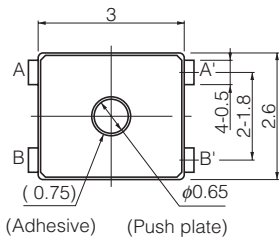
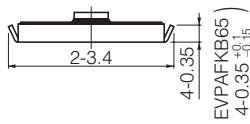
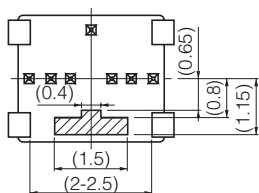
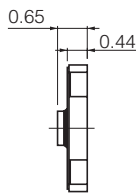
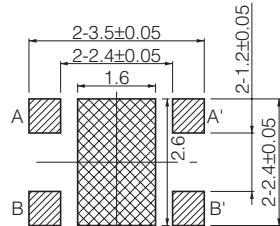
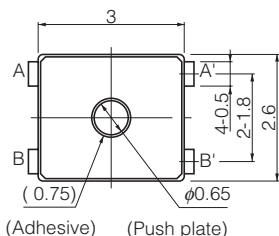
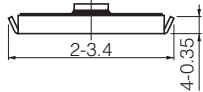
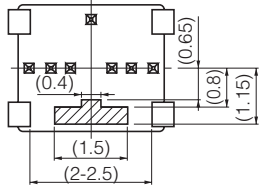
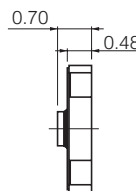
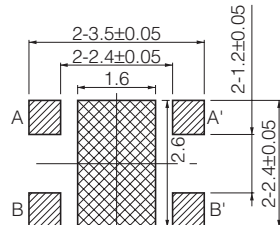
|                               |                                 |                                                                      |
|-------------------------------|---------------------------------|----------------------------------------------------------------------|
| Type                          |                                 | Snap action/Push-on type SPST                                        |
| Electrical                    | Rating                          | 10 $\mu$ A 2 Vdc to 20 mA 15 Vdc (Resistive load)                    |
|                               | Contact Resistance              | 500 m $\Omega$ max.                                                  |
|                               | Insulation Resistance           | 50 M $\Omega$ min. (at 100 Vdc)                                      |
|                               | Dielectric Withstanding Voltage | 250 Vac for 1 minute                                                 |
|                               | Bouncing                        | 10 ms max. (ON, OFF)                                                 |
| Mechanical                    | Operating Force                 | 1.3 N, 1.6 N, 2.4 N, 3.4 N                                           |
|                               | Travel                          | 0.15 mm                                                              |
| Endurance                     | Operating Life                  | 1.3 N, 1.6 N, 3.4 N : 100000 cycles min., 2.4 N : 500000 cycles min. |
| Operating Temperature         |                                 | −40 °C to +85 °C                                                     |
| Storage Temperature           |                                 | −40 °C to +85 °C (Bulk)                                              |
|                               |                                 | −20 °C to +60 °C (Taping)                                            |
| Minimum Quantity/Packing Unit |                                 | 8000 pcs. Embossed Taping (Reel Pack)                                |
| Quantity/Carton               |                                 | 40000 pcs.                                                           |

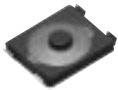
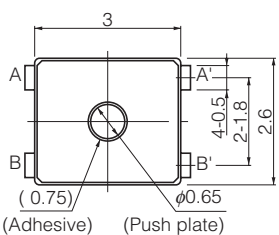
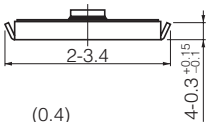
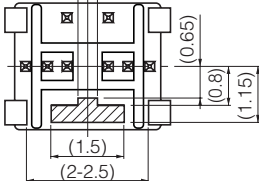
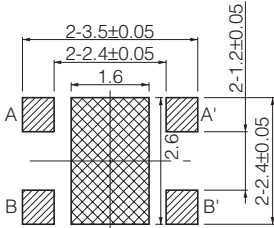
Note: Non washable

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.

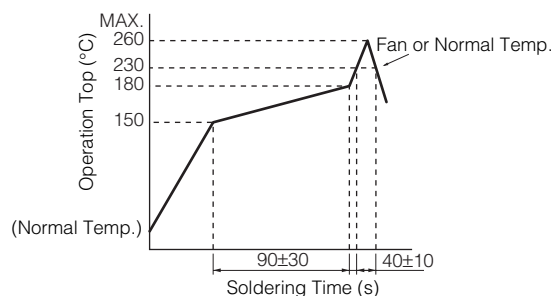
00 Oct. 2012

## ■ Dimensions in mm (not to scale)

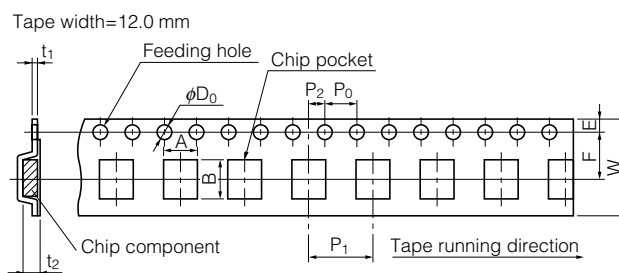
|                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------|
| <div>No. 1</div> <div>EVPAF</div> <div>(Embossed Taping)</div> <div>With J-bent terminals</div> <div></div>   | <div><p>(Adhesive) (Push plate)</p></div> <div>(Without the remainder of the gate)</div> <div><p>(EVPAFKB65)<br/>4-0.35<math>\pm</math>0.15</p></div> <div></div> <div><p>0.65 0.44</p></div> <div><p>Circuit diagram</p></div> <div><p>PWB land pattern for reference</p><p>Part of A-A' terminal is exposed at  area.<br/>Any land pattern or vias shall not be provided at  area.</p></div> |                                                         |                                                                             |
| <div>Part Numbers</div> <div>EVPAFKB65</div> <div>EVPAFFB65</div>                                                                                                                              | <div>Operating Force</div> <div>1.3 N</div> <div>1.6 N</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>Height</div> <div>0.65 mm</div> <div>0.65 mm</div> | <div>Operating Life</div> <div>100000 cycles</div> <div>100000 cycles</div> |
| <div>No. 2</div> <div>EVPAF</div> <div>(Embossed Taping)</div> <div>With J-bent terminals</div> <div></div> | <div><p>(Adhesive) (Push plate)</p></div> <div>(Without the remainder of the gate)</div> <div><p>2-3.4 4-0.35</p></div> <div></div> <div><p>0.70 0.48</p></div> <div><p>Circuit diagram</p></div> <div><p>PWB land pattern for reference</p><p>Part of A-A' terminal is exposed at  area.<br/>Any land pattern or vias shall not be provided at  area.</p></div>               |                                                         |                                                                             |
| <div>Part Numbers</div> <div>EVPAF5B70</div> <div>EVPAF7B70</div>                                                                                                                              | <div>Operating Force</div> <div>3.4 N</div> <div>2.4 N</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>Height</div> <div>0.7 mm</div> <div>0.7 mm</div>   | <div>Operating Life</div> <div>100000 cycles</div> <div>500000 cycles</div> |

|                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|
| <div>No. 3</div> <div>EVPAF</div> <div>Low profile<br/>(Embossed Taping)</div> <div>With J-bent terminals</div> <div></div> | <div></div> <div></div> <div></div> <div>(Without the remainder of the gate)</div> <div></div> <div>Circuit diagram</div> <div></div> <div>PWB land pattern for reference</div> <div>Part of A-A' terminal is exposed at  area.<br/>Any land pattern or vias shall not be provided at  area.</div> |         |                |
| Part Numbers                                                                                                                                                                                                 | Operating Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Height  | Operating Life |
| EVPOAFB65                                                                                                                                                                                                    | 1.6 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.65 mm | 500000 cycles  |
| EVPAF7B65                                                                                                                                                                                                    | 2.4 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.65 mm | 500000 cycles  |
| EVPAF5B65                                                                                                                                                                                                    | 3.4 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.65 mm | 100000 cycles  |

### Recommended Reflow Soldering Conditions



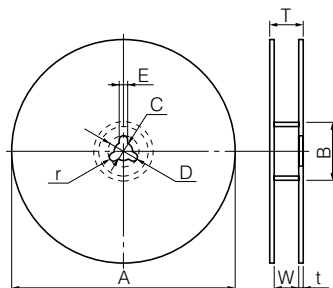
### Embossed Carrier Taping



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> |
|-----------------|-----------|----------|----------|----------|---------|----------|----------------|----------------|----------------|--------------------|----------------|----------------|
| EVPAF<br>EVPOAF | 0.65/0.70 | 3.75±0.2 | 2.95±0.2 | 12.0±0.3 | 5.5±0.1 | 1.75±0.1 | 8.0±0.1        | 2.0±0.1        | 4.0±0.1        | 1.5±0.3            | 0.3±0.1        | 0.8±0.2        |

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

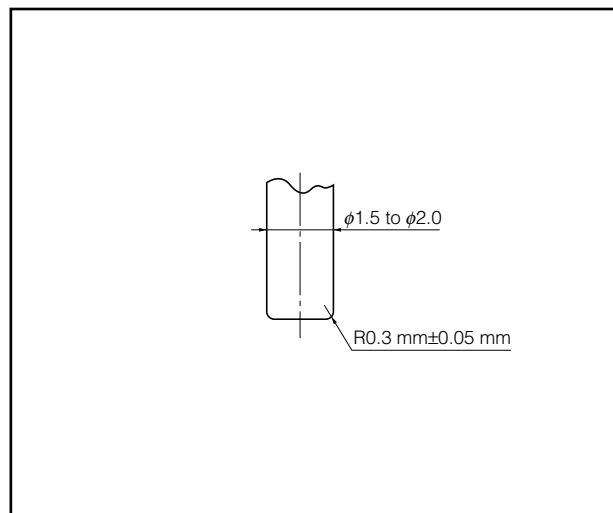


| Item      | A          | B         | C         | D         | E       |
|-----------|------------|-----------|-----------|-----------|---------|
| Rate (mm) | φ380.0±2.0 | φ80.0±1.0 | φ13.0±0.5 | φ21.0±1.0 | 2.0±0.5 |

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

### Recommended Shape of Test Pole



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