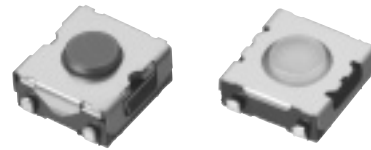


2 mm Thick SMD Light Touch Switches  
for Reflow Soldering (With Push Plate)

Japan

Type: **EVQPH/EVQQX**



Surface-mount type with a push plate

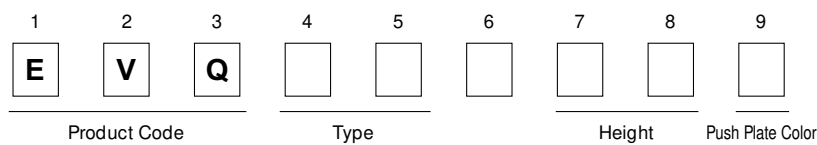
### ■ Features

- Easy operation with push plate
- Reflow soldering
- Wide product variety

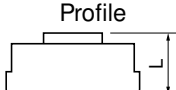
### ■ Recommended Applications

- Car electronics equipment

### ■ Explanation of Part Numbers



### ■ Product Chart

| Type with Push Plate   | Soldering | Reflow soldering             |         |                    |         |
|--|-----------|------------------------------|---------|--------------------|---------|
|  |           | Without sealing film         |         | With sealing film  |         |
| Profile<br> | Packaging | Taping<br>L=2.0, 2.5, 3.1 mm |         | Taping<br>L=3.1 mm |         |
|  |           | Ground terminal              | Without | With               | Without |
| Operating Force  | 1.3 N     | EVQQXP                       | EVQQXM  | EVQPHP             | EVQPHL  |
|  | 1.6 N     | EVQQXS                       | EVQQXN  | EVQPHV             | EVQPHN  |
|  | 2.6 N     | EVQQXT                       | EVQQXK  | EVQPHU             | EVQPHK  |


### ■ Specifications

| Type                          |  | Snap action / Push-on type SPST       |  |
|-------------------------------|--|---------------------------------------|--|
| Electrical                    | Rating   | 20 mA 15 Vdc max. (Resistive load)    |  |
|                               | Contact Resistance                                   | 50 mΩ max.                            |  |
|                               | Insulation Resistance                                | 50 MΩ min. (at 100 Vdc)               |  |
|                               | Dielectric Withstanding Voltage                      | 250 Vac for 1 minute                  |  |
|                               | Bouncing   | 3 ms max. (ON)<br>8 ms max. (OFF)     |  |
| Mechanical                    | Operating Force                                      | 1.3 N±0.4 N<br>1.6 N±0.5 N            | 2.6 N± 0.6 N                             |
|                               | Travel   | 0.25 mm±0.10 mm                       |  |
| Endurance                     | Operating Life                                       | EVQPH                                 | 100000 cycles min. / 50000 cycles min.   |
|                               |  | EVQQX                                 | 1000000 cycles min. / 100000 cycles min. |
|                               | Operating Temperature                                | -20 °C to +70 °C (45 % to 85 % RH)    |  |
| Storage Temperature           | -40 °C to +85 °C (Bulk)<br>-20 °C to +60 °C (Taping) |                                       |  |
| Minimum Quantity/Packing Unit | H=2.0 mm   | 4000 pcs. Embossed Taping (Reel Pack) |  |
|                               | H=2.5 mm, 3.1 mm                                     | 2000 pcs. Embossed Taping (Reel Pack) |  |
| Quantity/Carton               | H=2.0 mm   | 20000 pcs.                            |  |
|                               | H=2.5 mm, 3.1 mm                                     | 10000 pcs.                            |  |

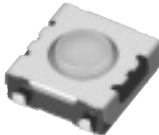
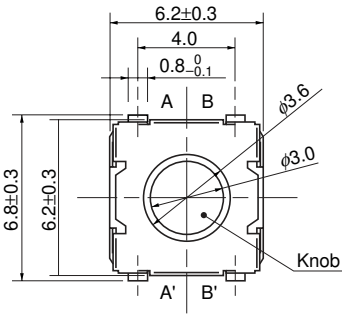
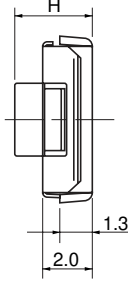
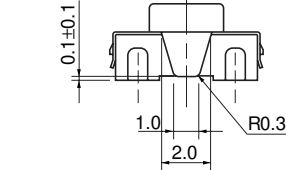
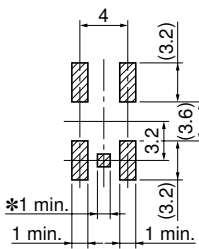
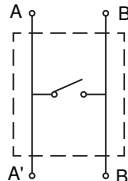
Note: Non washable

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)

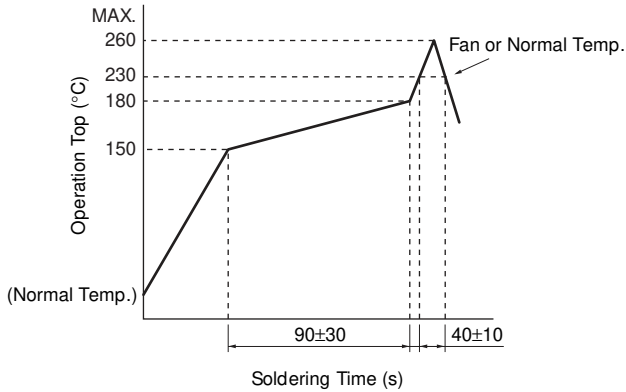
| <p>No. 1</p> <p>EVQPH</p> <p>(Embossed Taping)</p> <p>With push plate</p> <p>Surface mount</p> <p>For reflow soldering</p> <p>With ground terminal</p> <p>Without ground terminal</p> <p>Notes:</p> <p>1. Non-washable in solvents</p> <p>2. Types with ground terminal available</p>  | <p style="text-align: center;">Circuit diagram</p> <p style="text-align: center;">Reference of PWB pattern</p> <p style="text-align: right;">* This land not necessary when a ground terminal is not used.</p> |        |                  |                 |                |
|---|--|--------|------------------|-----------------|----------------|
| Part Numbers  | Operating Force  | Height | Push Plate Color | Ground Terminal | Operating Life |
| EVQPHP03T   | 1.3 N  | 3.1 mm | Brown            | Without         | 100000 cycles  |
| EVQPHV03T   | 1.6 N  | 3.1 mm | Brown            | Without         | 100000 cycles  |
| EVQPHU03T   | 2.6 N  | 3.1 mm | Brown            | Without         | 50000 cycles   |
| EVQPHL03T   | 1.3 N  | 3.1 mm | Brown            | With            | 100000 cycles  |
| EVQPHN03T   | 1.6 N  | 3.1 mm | Brown            | With            | 100000 cycles  |
| EVQPHK03T   | 2.6 N  | 3.1 mm | Brown            | With            | 50000 cycles   |

■ Dimensions in mm (not to scale)

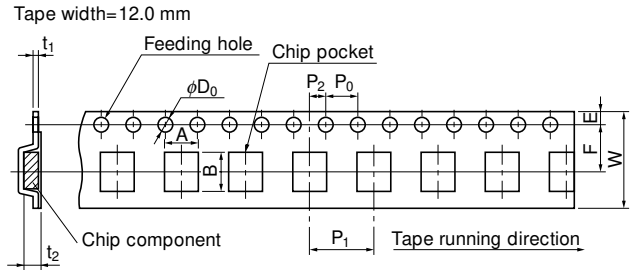
| <p>No. 2</p> <p>EVQQX<br/>(Embossed Taping)</p> <p>With push plate<br/>Surface mount<br/>For reflow soldering<br/>With ground terminal<br/>Without ground terminal</p> <p>Notes:<br/>1. Non-washable in solvents<br/>2. Types with ground terminal available</p>  |      <div style="text-align: right;"> <table border="1" style="margin-left: auto;"> <thead> <tr> <th>Height</th> </tr> </thead> <tbody> <tr> <td>H</td> </tr> <tr> <td>2.0±0.2</td> </tr> <tr> <td>2.5±0.2</td> </tr> <tr> <td>3.1<sup>+0.3</sup><sub>-0.1</sub></td> </tr> </tbody> </table> </div> <p style="text-align: center;">Reference of PWB pattern      Circuit Diagram</p> <p style="text-align: center;">* This land not necessary when a ground terminal is not used.</p>  | Height       | H                | 2.0±0.2         | 2.5±0.2          | 3.1 <sup>+0.3</sup> <sub>-0.1</sub> |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
|---|---|--------------|------------------|-----------------|------------------|-------------------------------------|----------------|-----------|-------|--------|-------|---------|----------------|-----------|-------|--------|-------|---------|----------------|-----------|-------|--------|-------|---------|----------------|-----------|-------|--------|-------|---------|----------------|-----------|-------|--------|-------|---------|----------------|-----------|-------|--------|-------|---------|----------------|-----------|-------|--------|-------|---------|---------------|-----------|-------|--------|-------|---------|---------------|-----------|-------|--------|-------|---------|---------------|-----------|-------|--------|-------|------|----------------|-----------|-------|--------|-------|------|----------------|-----------|-------|--------|-------|------|----------------|-----------|-------|--------|-------|------|----------------|-----------|-------|--------|-------|------|----------------|-----------|-------|--------|-------|------|----------------|-----------|-------|--------|-------|------|---------------|-----------|-------|--------|-------|------|---------------|-----------|-------|--------|-------|------|---------------|
| Height  |   |              |                  |                 |                  |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| H   |   |              |                  |                 |                  |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| 2.0±0.2   |   |              |                  |                 |                  |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| 2.5±0.2   |   |              |                  |                 |                  |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| 3.1 <sup>+0.3</sup> <sub>-0.1</sub>   |   |              |                  |                 |                  |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
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| Part Numbers  | Operating Force   | H=Height     | Push Plate Color | Ground Terminal | Operating Life   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXP01W   | 1.3 N   | 2.0 mm       | White            | Without         | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXP02W   | 1.3 N   | 2.5 mm       | White            | Without         | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXP03W   | 1.3 N   | 3.1 mm       | White            | Without         | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXS01W   | 1.6 N   | 2.0 mm       | White            | Without         | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXS02W   | 1.6 N   | 2.5 mm       | White            | Without         | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXS03W   | 1.6 N   | 3.1 mm       | White            | Without         | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXT01W   | 2.6 N   | 2.0 mm       | White            | Without         | 100000 cycles    |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXT02W   | 2.6 N   | 2.5 mm       | White            | Without         | 100000 cycles    |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXT03W   | 2.6 N   | 3.1 mm       | White            | Without         | 100000 cycles    |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXM01W   | 1.3 N   | 2.0 mm       | White            | With            | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXM02W   | 1.3 N   | 2.5 mm       | White            | With            | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXM03W   | 1.3 N   | 3.1 mm       | White            | With            | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXN01W   | 1.6 N   | 2.0 mm       | White            | With            | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXN02W   | 1.6 N   | 2.5 mm       | White            | With            | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXN03W   | 1.6 N   | 3.1 mm       | White            | With            | 1000000 cycles   |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXK01W   | 2.6 N   | 2.0 mm       | White            | With            | 100000 cycles    |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXK02W   | 2.6 N   | 2.5 mm       | White            | With            | 100000 cycles    |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |
| EVQQXK03W   | 2.6 N   | 3.1 mm       | White            | With            | 100000 cycles    |                                     |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |                |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |         |               |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |                |           |       |        |       |      |               |           |       |        |       |      |               |           |       |        |       |      |               |

## Recommended Reflow Soldering Conditions

- Type EVQPH
- Type EVQQX



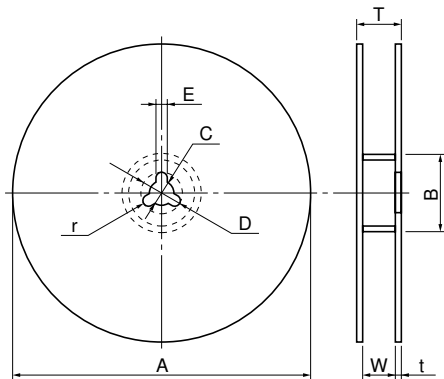
## Embossed Carrier Taping



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> |
|----------|--------|---------|---------|----------|---------|-----------|----------------|----------------|----------------|-----------------------------------|----------------|----------------|
| EVQPH    | 3.1    | 7.0±0.2 | 7.5±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> | 0.30±0.05      | 3.2±0.2        |
| EVQQX    | 2.0    |         |         |          |         |           |                |                |                |                                   |                | 2.2±0.2        |
|          |        | 2.5/3.1 |         |          |         |           |                |                |                |                                   |                | 3.2±0.2        |

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

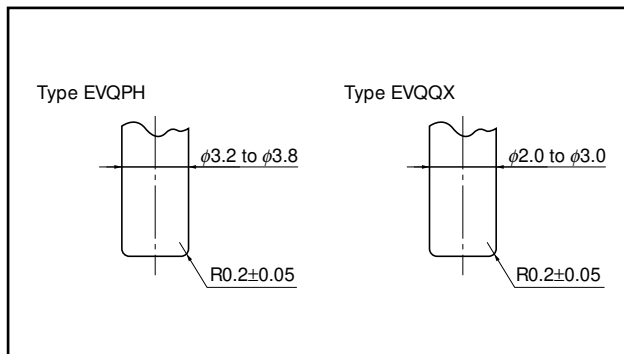


| Item      | A          | B          | C         | D         | E       |
|-----------|------------|------------|-----------|-----------|---------|
| Rate (mm) | φ370.0±2.0 | φ50.0 min. | φ13.0±0.5 | φ21.0±1.0 | 2.0±0.5 |

| Item      | W        | T | t          | r       |
|-----------|----------|---|------------|---------|
| Rate (mm) | 14.0±1.5 | — | 1.0 to 3.0 | 1.0±0.5 |

## Recommended Shape of Test Pole



## Recommended Operating Conditions

