## $4.7 \mathrm{~mm} \times 3.5 \mathrm{~mm}$ SMD Light Touch Switches

## Type: EVQP2/EVQP9/EVQ3P2

## Features



- External dimensions : $4.7 \mathrm{~mm} \times 3.5 \mathrm{~mm}$,

Height : Middle Push Travel 2.5 mm
Short Push Travel $2.1 \mathrm{~mm}, 2.5 \mathrm{~mm}$

- High operating force and long operational life
- High mountability with J-bent (4 terminals)


## ■ecommended Applications

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

Explanation of Part Numbers


Specifications

| Travel Type |  | Middle Push Travel | Short Push Travel |
| :---: | :---: | :---: | :---: |
| Type |  | Snap action / Push-on V DC type SPST |  |
| Electrical | Rating | $10 \mu \mathrm{~A} 2 \mathrm{~V}$ DC to 20 mA 15 V DC (Resistive load) |  |
|  | Contact Resistance | $100 \mathrm{~m} \Omega$ max. |  |
|  | Insulation Resistance | $100 \mathrm{M} \Omega \mathrm{min}$. (at 100 V DC ) |  |
|  | Dielectric Withstanding Voltage | 250 V AC (1 minute) |  |
|  | Bouncing | $10 \mathrm{~ms} \mathrm{max}$. (ON, OFF) |  |
| Mechanical | Operating Force | $2.5 \mathrm{~N}, 3.5 \mathrm{~N}, 5.0 \mathrm{~N}$ | $1.0 \mathrm{~N}, 1.6 \mathrm{~N}, 2.4 \mathrm{~N}, 3.5 \mathrm{~N}, 4.0 \mathrm{~N}, 5.0 \mathrm{~N}$ |
|  | Travel | $0.70 \mathrm{~mm} \pm 0.20 \mathrm{~mm}$ | $0.25 \mathrm{~mm}_{-0.15}^{+0.05} \mathrm{~mm}$ |
| Endurance | Operating Life | $2.5 \mathrm{~N}: 1,000,000$ cycles min. 3.5 N : 500,000 cycles min. 5.0 N : 200,000 cycles min. | 1.0 N, $1.6 \mathrm{~N}: 1,000,000$ cycles min. $2.4 \mathrm{~N}: 500,000$ cycles min. $3.5 \mathrm{~N}: 200,000$ cycles min. $4.0 \mathrm{~N}: 200,000$ cycles min. $5.0 \mathrm{~N}: 200,000$ cycles min. |
| Operating Temperature |  | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  |
| Storage Temperature |  | $\begin{aligned} & -40^{\circ} \mathrm{C} \text { to }+85^{\circ} \mathrm{C} \text { (Bulk) } \\ & -20^{\circ} \mathrm{C} \text { to }+60^{\circ} \mathrm{C} \text { (Taping) } \end{aligned}$ |  |
| Minimum Quantity/Packing Unit |  | 4,000 pcs. Embossed Taping (Reel Pack) |  |
| Quantity/Carton |  | 20,000 pcs. |  |

Dimensions in mm (not to scale)


Dimensions in mm (not to scale)


Dimensions in mm (not to scale)


Dimensions in mm (not to scale)


Recommended Reflow Soldering Conditions

Embossed Carrier Taping



Recommended Shape of Test Pole


Recommended Operating Conditions


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