4.7 mm×3.5 mm SMD Light Touch Switches

Type: EVQP2/EVQP9/EVQ3P2





■ Features

■ External dimensions: 4.7 mm×3.5 mm,

Height: Middle Push Travel 2.5 mm

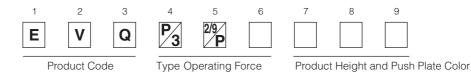
Short Push Travel 2.1 mm, 2.5 mm

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

■ Recommended Applications

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

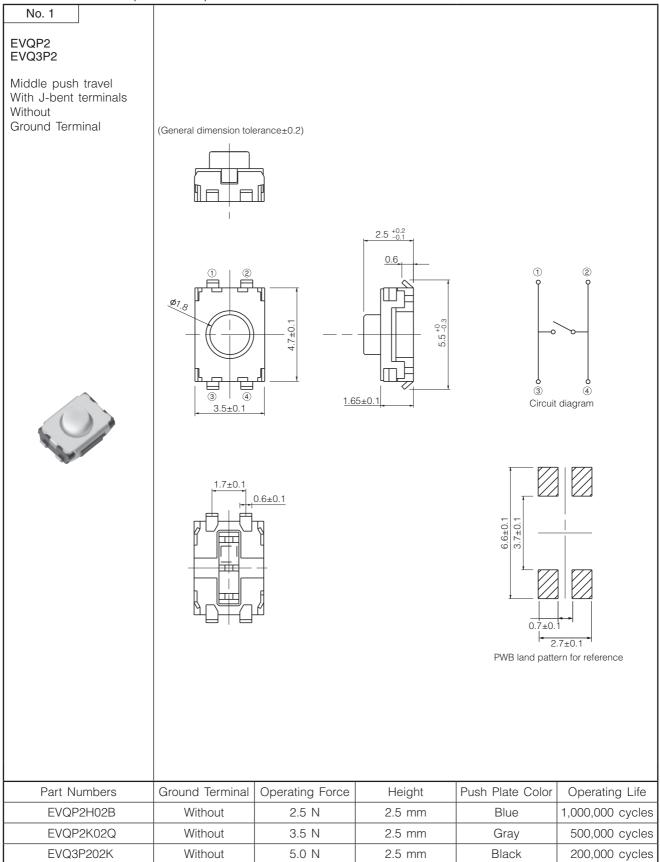
■ Explanation of Part Numbers



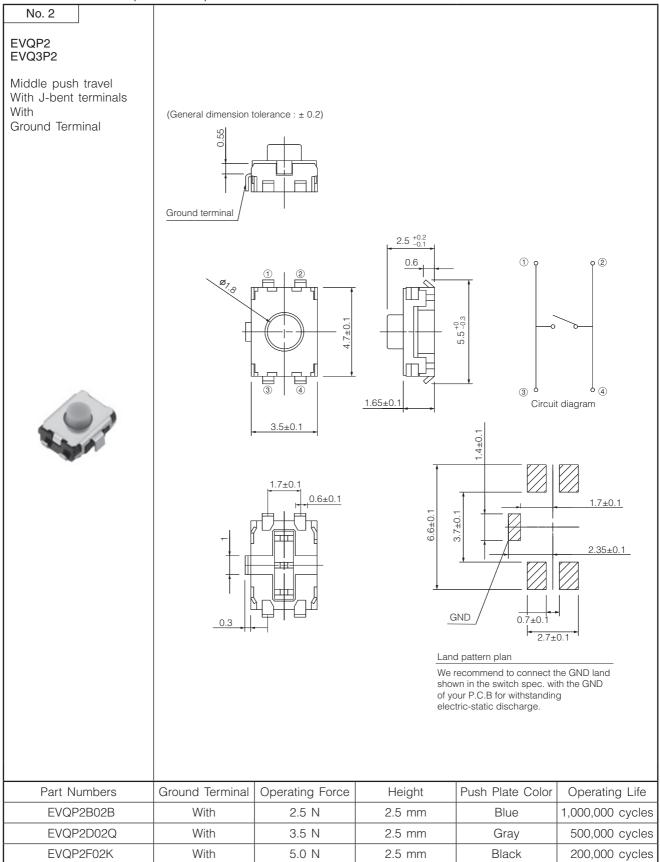
■ Specifications

| Travel Type | | Middle Push Travel | Short Push Travel | | | | | |
|-------------------------------|---------------------------------|---|---|--|--|--|--|--|
| Туре | | Snap action / Push-on V DC type SPST | | | | | | |
| Electrical | Rating | 10 μA 2 V DC to 20 mA 15 V DC (Resistive load) | | | | | | |
| | Contact Resistance | 100 mΩ max. | | | | | | |
| | Insulation Resistance | 100 MΩ min. (at100 V DC) | | | | | | |
| | Dielectric Withstanding Voltage | 250 V AC (1 minute) | | | | | | |
| | Bouncing | 10 ms max. (ON, OFF) | | | | | | |
| Mechanical | Operating Force | 2.5 N, 3.5 N, 5.0 N | 1.0 N, 1.6 N, 2.4 N, 3.5 N, 4.0 N, 5.0 N | | | | | |
| | Travel | 0.70 mm±0.20 mm | 0.25 mm ^{+0.05} mm | | | | | |
| Endurance | Operating Life | 2.5 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 N: 1,000,000 cycles min. 2.4 N: 500,000 cycles min. 3.5 N: 200,000 cycles min. 4.0 N: 200,000 cycles min. 5.0 N: 200,000 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 | | 4,000 pcs. Embossed Taping (Reel Pack) | | | | | | |
| Quantity/Carton | | 20,000 pcs. | | | | | | |

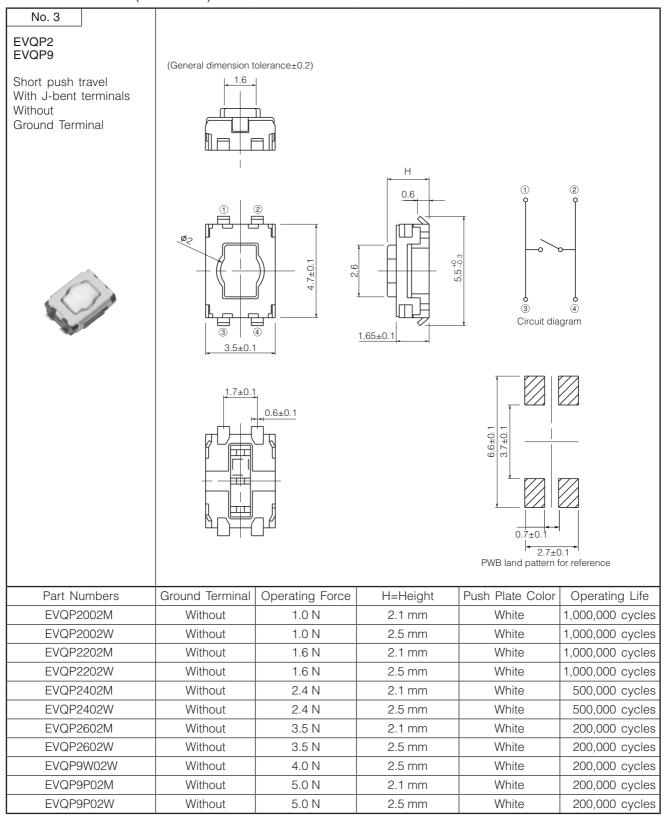
■ Dimensions in mm (not to scale)



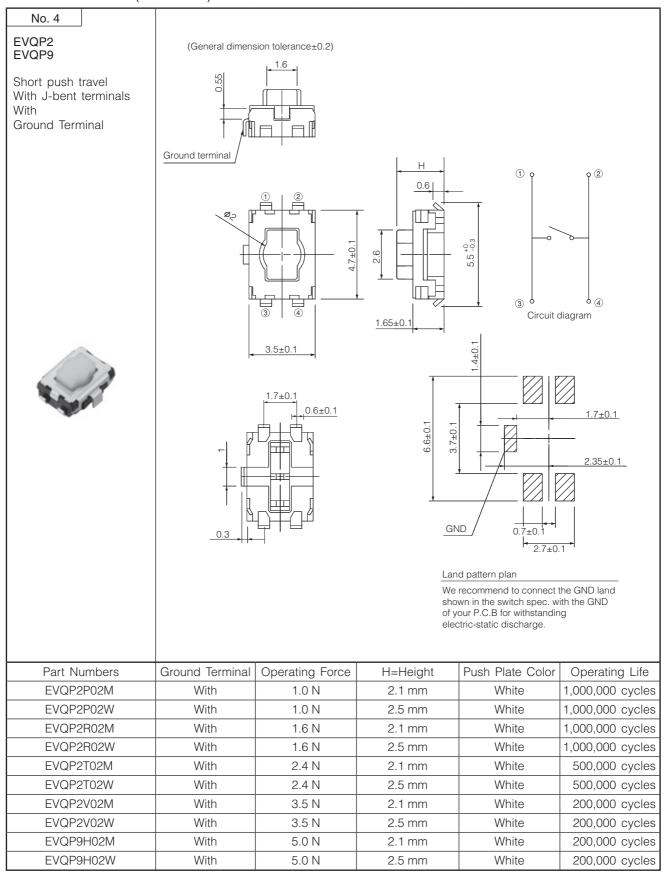
■ Dimensions in mm (not to scale)



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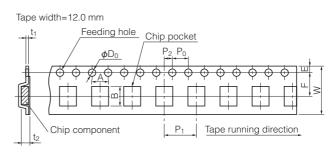
■ Dimensions in mm (not to scale)



■ Recommended Reflow Soldering Conditions

MAX. 260 Fan or Normal Temp. 230 180 Fan or Normal Temp. (Normal Temp.) 90±30 40±10 Soldering Time (s)

Embossed Carrier Taping



Taping condition: Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.

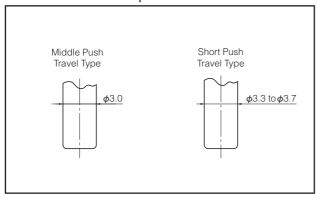
Peeling off strength of top tape: It should be within 0.2N to 1. ON at 165 degree in peeling off angle.

Joint of carrier tape: One joint per one reel may exist.

Unit: mm

| Part No. | Height | А | В | W | F | Е | P ₁ | P ₂ | P ₀ | D₀ Dia. | t ₁ | t2 |
|--------------------------|------------|---------|---------|----------|---------|-----------|----------------|----------------|----------------|---------|----------------|---------|
| EVQP2 EVQP9 EVQ3P2 | 2.1 2.5 | 6.0±0.2 | 4.7±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+0.1 | 0.3±0.1 | 2.7±0.2 |

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions

