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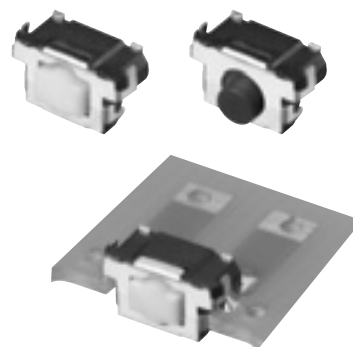
Panasonic

Light Touch Switches/EVQP4

6.2 mm×2.5 mm Side-operational Edge Mount

Light Touch Switches

Type: **EVQP4**



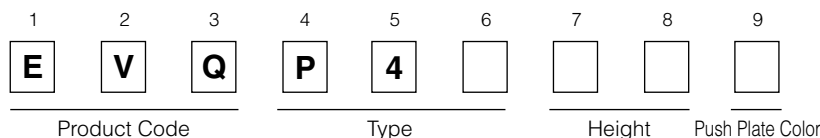
■ Features

- External dimensions : 6.2 mm×2.55 mm (Excluding the push plate), Height 3.5 mm (EVQP4 Type : Printed circuit board being as low as 1.35 mm)
- Side-operational middle stroke type (0.7 mm) with a high operating force (5.0 N)
- Improved soldering strength in the operating direction when mounted on PC board edge

■ Recommended Applications

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

■ Explanation of Part Numbers




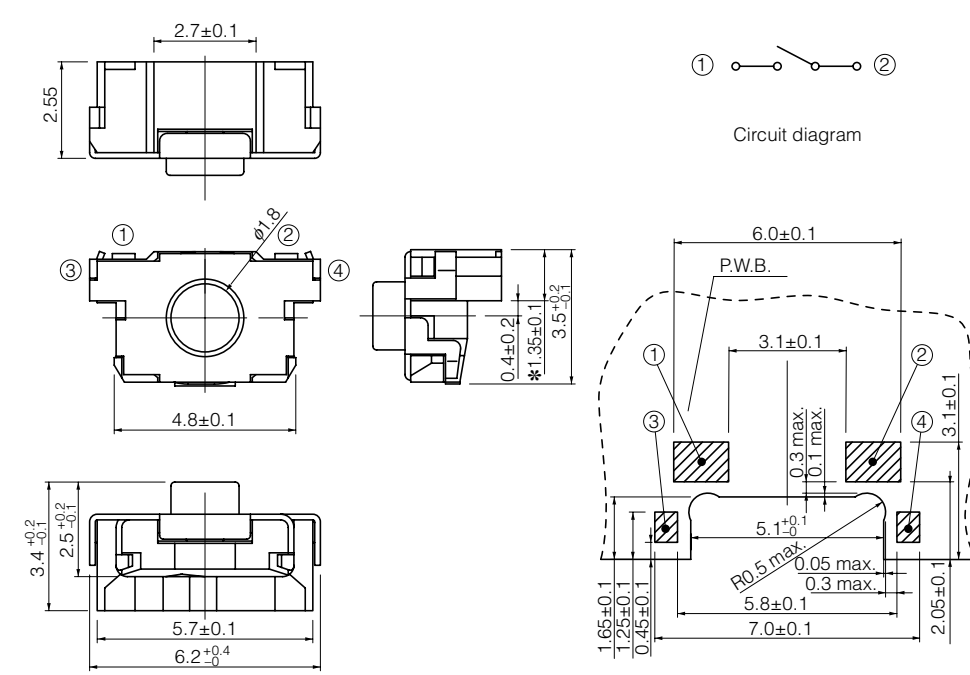
■ Specifications

| Travel Type | | Middle Push Travel | Short Push Travel |
|-------------------------------|---------------------------------|--|-----------------------------------|
| Type | | Snap action / Push-on type SPST | |
| Electrical | Rating | 10 μA 2 Vdc to 20 mA 15 Vdc (Resistive load) | |
| | Contact Resistance | 100 mΩ max. | |
| | Insulation Resistance | 100 MΩ min. (at 100 Vdc) | |
| | Dielectric Withstanding Voltage | 250 Vac (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 |
| | Travel | 0.70 mm±0.2 mm | |
| | Push Strength | 50 N (1 minute) | |
| Endurance | Operating Life | 2.5 N: 1000000 cycles min. | 1.0 N, 1.6 N: 1000000 cycles min. |
| | | 3.5 N: 500000 cycles min. | 2.4 N: 500000 cycles min. |
| | | 5.0 N: 200000 cycles min. | 3.5 N: 200000 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 | | 2500 pcs. Embossed Taping (Reel Pack) | |
| Quantity/Carton | | 12500 pcs. | |


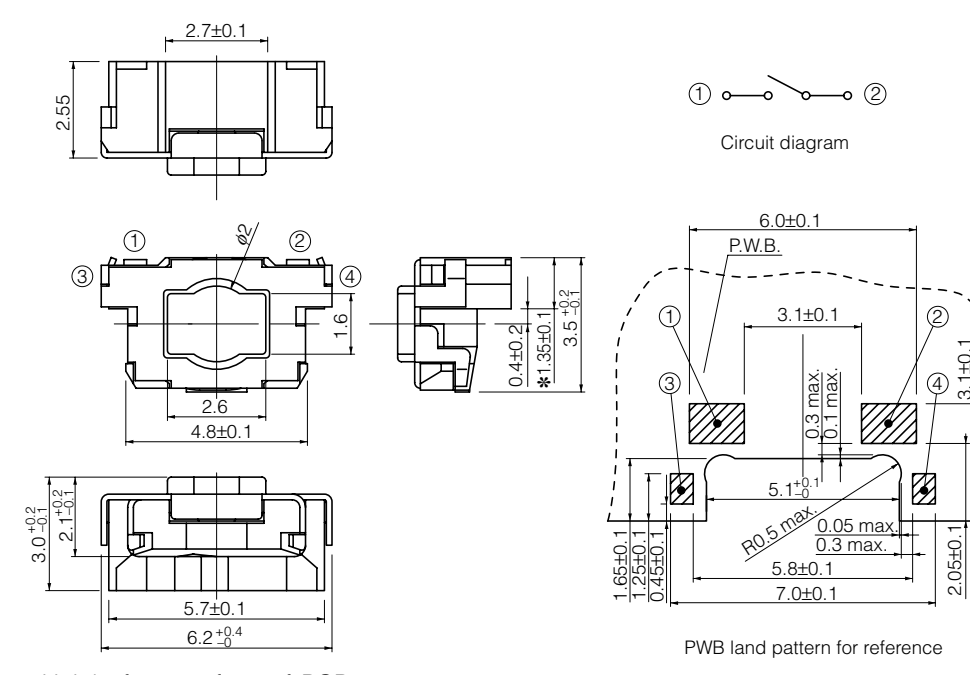
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Light Touch Switches/EVQP4

■ Dimensions in mm (not to scale)

| | |
|--|---|
| <p>No. 1</p> <p>EVQP4</p> <p>Middle push travel</p>  |  <p style="text-align: center;">* Height from surface of PCB : 1.35 mm</p> |
|--|---|

| Part Numbers | Operating Force | Height | Push Plate Color | Operating Life |
|--------------|-----------------|--------|------------------|----------------|
| EVQP4HB3B | 2.5 N | 3.5 mm | Blue | 1000000 cycles |
| EVQP4KB3Q | 3.5 N | 3.5 mm | Gray | 500000 cycles |
| EVQP4MB3K | 5.0 N | 3.5 mm | Black | 200000 cycles |

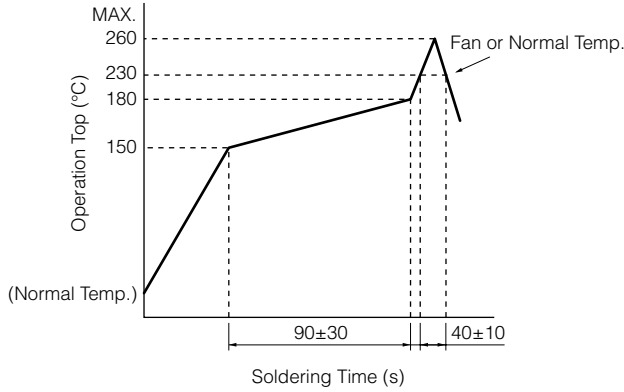
| | |
|---|--|
| <p>No. 2</p> <p>EVQP4</p> <p>Short push travel</p>  |  <p style="text-align: center;">* Height from surface of PCB : 1.35 mm</p> |
|---|--|

| Part Numbers | Operating Force | Height | Push Plate Color | Operating Life |
|--------------|-----------------|--------|------------------|----------------|
| EVQP40B3M | 1.0 N | 3.5 mm | Natural | 1000000 cycles |
| EVQP42B3M | 1.6 N | 3.5 mm | Natural | 1000000 cycles |
| EVQP44B3M | 2.4 N | 3.5 mm | Natural | 500000 cycles |
| EVQP46B3M | 3.5 N | 3.5 mm | Natural | 200000 cycles |

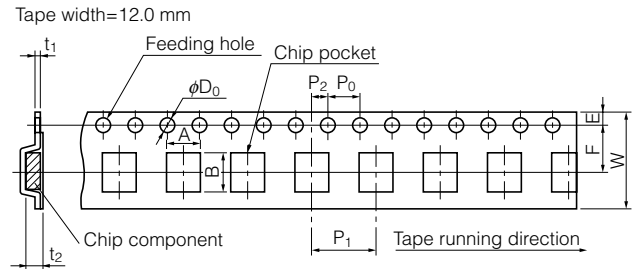
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Recommended Reflow Soldering Conditions



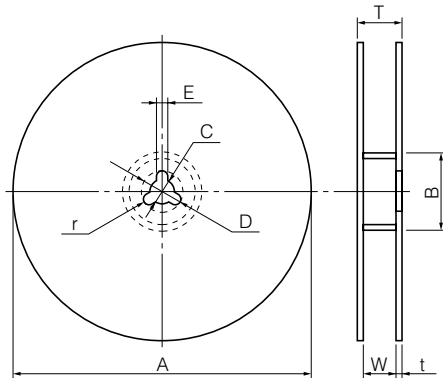
Embossed Carrier Taping



Unit: mm

| Part No. | Height | A | B | W | F | E | P ₁ | P ₂ | P ₀ | D ₀ Dia. | t ₁ | t ₂ |
|----------|--------|---------|---------|----------|---------|-----------|----------------|----------------|----------------|-----------------------------------|----------------|----------------|
| EVQP4 | 3.5 | 6.5±0.2 | 3.9±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 | 0.4±0.1 | 3.75±0.20 |

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 |