Panasonic

6mm Square Middle Travel SMD Light Touch Switch

Type: **EVPBF**



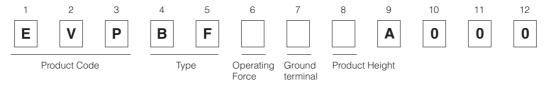
■ Features

- External dimensions: 6.0 mm×6.0 mm, Height 2.5 mm (Excluding the push plate, Middle Travel)
- Middlestroke travel type

■ Recommended Applications

- Operating switches for other electronic equipment
- Operation switches for PC mouse
- Car audio systems
- Game

■ Explanation of Part Numbers



■ Specifications

| | Middlestroke Travel | | | | | |
|---------------------------------|--|--|--|--|--|--|
| | Snap action/Push-on type SPST | | | | | |
| Rating | 10 μA 2 V DC to 20 mA 15 V DC (Resistive load) | | | | | |
| Contact Resistance | 500 m $Ω$ max. | | | | | |
| Insulation Resistance | 100 MΩ min. (at 100 V DC) | | | | | |
| Dielectric Withstanding Voltage | 250 V AC for 1 minute | | | | | |
| Bouncing | 10 ms max. (ON, OFF) | | | | | |
| Operating Force | 2.0 N, 3.5 N | | | | | |
| Travel | 2.0 N : 0.25 mm, 3.5 N : 0.32 mm | | | | | |
| Operating Life | 2.0 N: 1,000,000 cycles min., 3.5 N: 100,000 cycles min. | | | | | |
| mperature | −40 °C to +85 °C | | | | | |
| perature | -40 °C to $+85$ °C (Bulk) -20 °C to $+60$ °C (Taping) | | | | | |
| antity/Packing Unit | 3,000 pcs. Embossed Taping (Reel Pack) | | | | | |
| ton | 15,000 pcs. | | | | | |
| | Contact Resistance Insulation Resistance Dielectric Withstanding Voltage Bouncing Operating Force Travel Operating Life mperature perature antity/Packing Unit | | | | | |

Note: Non washable

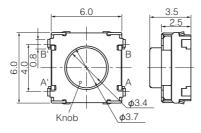
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

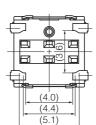
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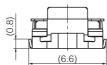
■ Dimensions in mm (not to scale)

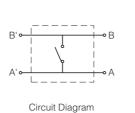
EVPBF

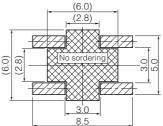
Middlestroke Travel With J-bent terminals General dimension tolerance: ± 0.2 () dimensions are reference dimensions.











PWB land pattern for reference

: Recommended land pattern area. : No soldering area.

- Any land pattern or via holes shall not be provided at area.
 If it's necessary to design land pattern or via holes at area, please apply resist to them to protect their metal part completely.
 If their metal part are not protected.
- If their metal parts are not protected completely, short circuit failure may occur by solder ball.
- Beside, there should be convexoconcave by designing additional pattern, it may cause swith tilt, influence on solder-ability or flux intrusion after reflow soldering.

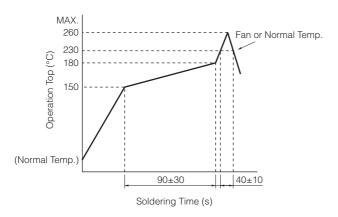
 Therefore, please study any influence of
- additional land pattern or via holes at area in advance.

| Part Numbers | Operating Force | Height | Push Plate Color | Ground Terminal | Operating Life | |
|--------------|-----------------|--------|------------------|-----------------|------------------|--|
| EVPBFAC1A000 | 2.0 N | 3.5 mm | Gray | Without | 1,000,000 cycles | |
| EVPBF6C1A000 | 3.5 N | 3.5 mm | Gray | Without | 100,000 cycles | |

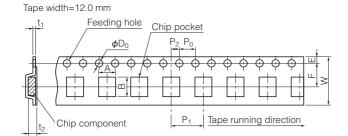
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■ Recommended Reflow Soldering Conditions



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 1.0N at

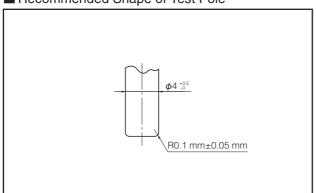
165 degree in peeling off angle.

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

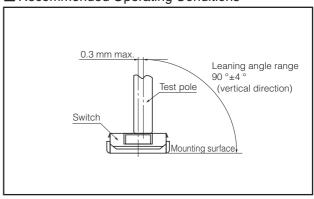
Unit: mm

| Part No. | Height | А | В | W | F | E | P ₁ | P ₂ | Po | Do Dia | t1 | t ₂ |
|----------|--------|---------|---------|----------|---------|-----------|----------------|----------------|---------|---------|-----------|----------------|
| EVPBF | 3.5 | 6.7±0.2 | 7.4±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 | 0.30±0.05 | 3.7±0.1 |

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions



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