

## Tactile Switch (Ultra-low Profile SMD Type)

# B3B

### Ultra-low Profile Tactile Switch with a Thickness of Only 0.47 mm

- Surface-mounting model with dimensions of 4.7 x 4.7 x 0.47 mm allows high-density mounting.
- Contributes to making devices with this Tactile Switch more compact, slim, and lightweight.
- Available on embossed tape that enables automatic mounting.
- Dust-sealed construction provides high reliability.
- Available for reflow soldering.



勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

## Ordering Information

### ■ Model Number Legend

**B3B-□00□□**  
 1      2    3

1. Insulating Tape  
 1: None

2. Operating Force (OF)  
 2: 1.58 N {160 gf}  
 3. Shipment Package  
 P: Embossed tape

### ■ List of Models

| Item                                     | Model     |
|------------------------------------------|-----------|
| Embossed tape packing (unit: 6,000 pcs.) | B3B-1002P |

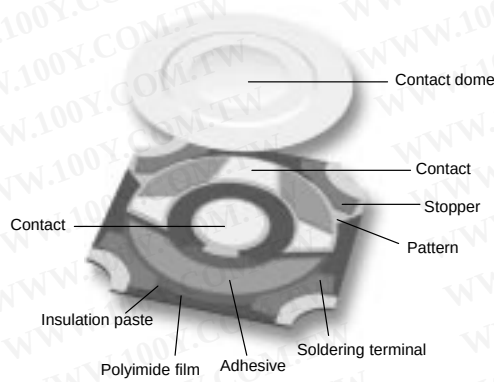
**Note:** The Switches are available in units of 6,000 pieces. Orders must be made in units of 6,000 pieces.  
 For details on packing, refer to *Packing Specifications* on page 9.

## Specifications

### ■ Ratings/Characteristics

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Switching capacity    | 1 to 20 mA, 5 to 15 VDC, (resistive load)            |
| Contact configuration | SPST-NO                                              |
| Contact material      | Silver plating                                       |
| Contact resistance    | 1 Ω max. (initial value) (rated: 1 mA, 5 VDC)        |
| Insulation resistance | 100 MΩ min. (at 100 VDC)                             |
| Dielectric strength   | 250 VAC, 50/60 Hz for 1 min                          |
| Bounce time           | 10 ms max.                                           |
| Vibration resistance  | Malfunction: 10 to 55 Hz, 1.5-mm double amplitude    |
| Shock resistance      | Destruction: 735 m/s <sup>2</sup> {approx. 75G} max. |
| Life expectancy       | 50,000 operations min.                               |
| Ambient temperature   | Operating: -25°C to 70°C (with no icing)             |
| Ambient humidity      | Operating: 25% to 85%                                |
| Weight                | Approx. 0.01 g max.                                  |

Nomenclature

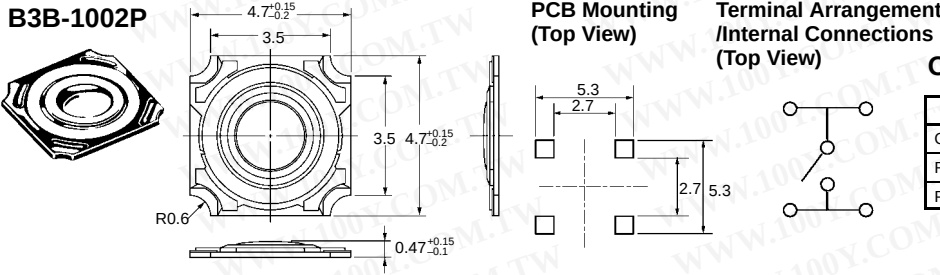


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Dimensions

**Note:** All units are in millimeters unless otherwise indicated.

B3B-1002P



Operating Characteristics

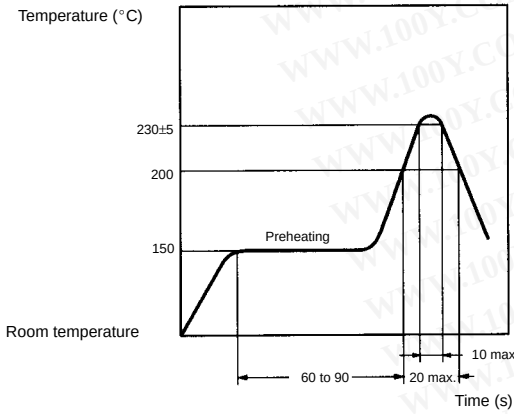
| Item                 | Standard value          |
|----------------------|-------------------------|
| Operating force (OF) | 1.58±0.49 N {160±50 gf} |
| Releasing force (RF) | 0.29 N {30 gf} min.     |
| Pretravel (PT)       | 0.2±0.1 mm              |

Precautions

Soldering

Soldering Conditions for Reflow Soldering

Carry out soldering within the temperature curve shown in the following illustration.



**Note:** The above curve is given on condition that the thickness of the PCB is 1.6 mm.

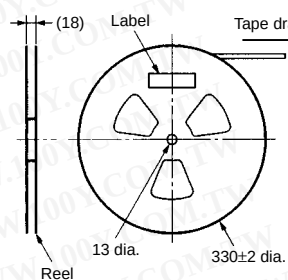
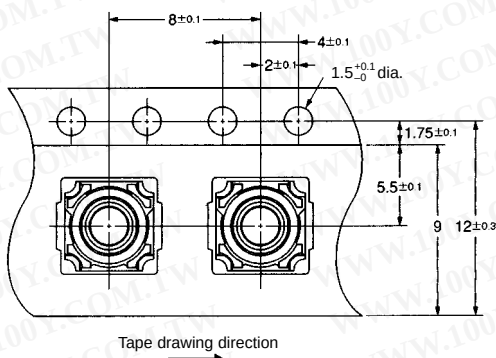
Since the peak value may vary depending on the reflow soldering device, be sure to conduct a verification test in advance.

Washing

No washing is allowed after soldering to prevent detergent or flux from entering into the Switch. Doing so may cause malfunction.

## Switch Packing

|                 |                                |
|-----------------|--------------------------------|
| Package         | 6,000 Switches                 |
| Heat resistance | 50°C/24 hours (no deformation) |



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**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.