

### 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.



## 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

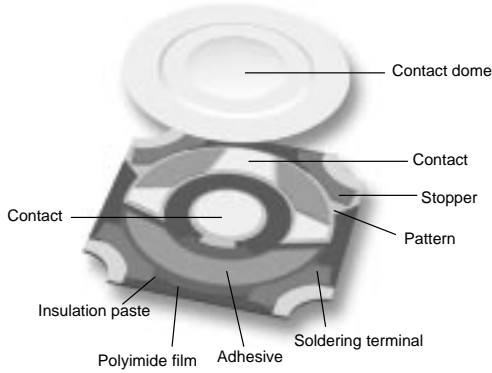
**Note:** The Switches are available in units of 6,000 pieces. Orders must be made in units of 6,000 pieces. For details on packing, refer to *Packing Specifications* on page 9.

## Specifications

### Ratings/Characteristics

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

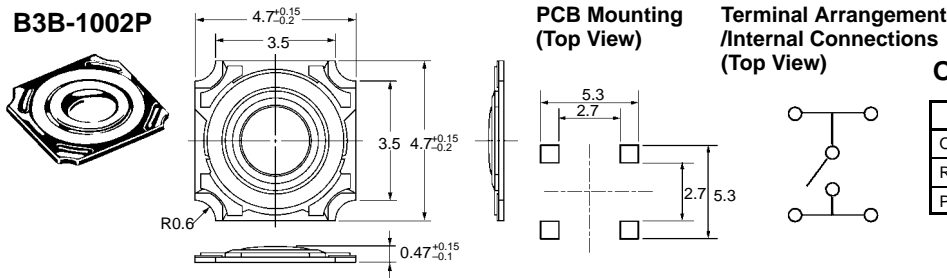
# Nomenclature



# Dimensions

Note: All units are in millimeters unless otherwise indicated.

## B3B-1002P



## Operating Characteristics

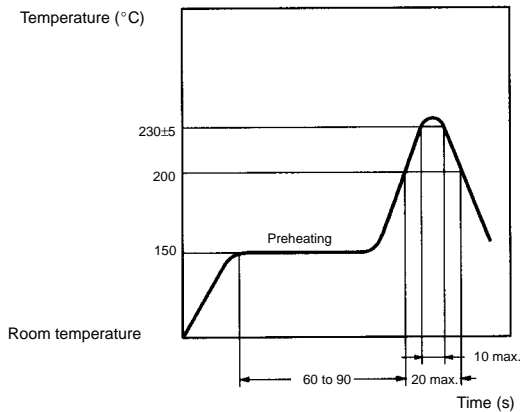
Item	Standard value
Operating force (OF)	1.58±0.49 N {160±50 gf}
Releasing force (RF)	0.29 N {30 gf} min.
Pretravel (PT)	0.2±0.1 mm

# 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.

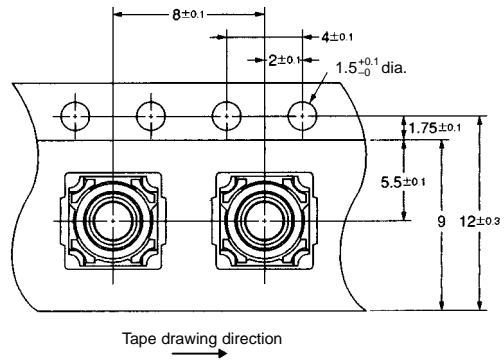
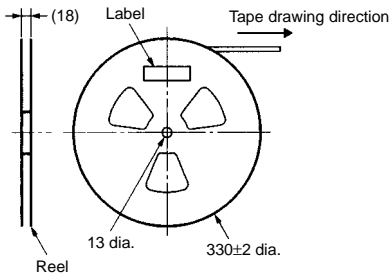
Since the peak value may vary depending on the reflow soldering device, be sure to conduct a verification test in advance.

## 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)



**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**  
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.