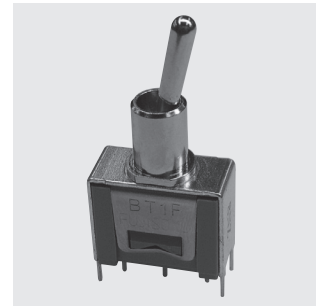


# BT

## Miniature Toggle Switch



RoHS Compliant

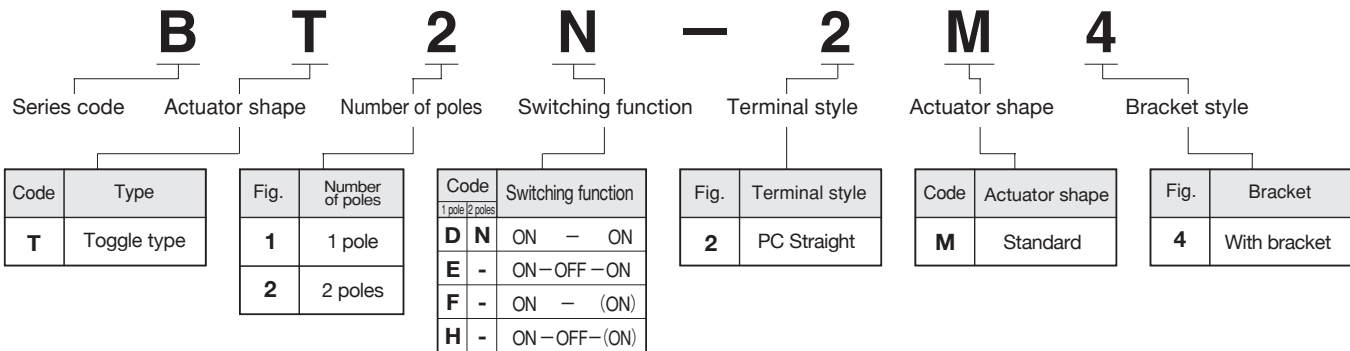
### ■ Features

1. Terminal pin pitch: 2.54 mm.
2. Gold-plated contacts
3. Wiping contact mechanism for long-term reliability
4. Independent detent mechanism ensures light operational feel.
5. Epoxy-sealed terminal pins
6. Miniature size (Single-pole: 7.6mm, Double-pole: 12.7mm) for high density mounting.

### ■ Specifications

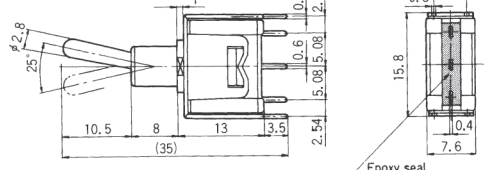
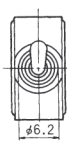
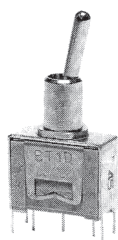
Rating	Max.	50mA 20VAC · DC
Initial contact resistance	50mΩ max.	(1.5mA 200μVAC)
Dielectric strength	500VAC 1 minute	
Insulation resistance	10,000MΩ min.	(250VDC)
Electrical life	50,000 cycles	
Operating temperature range	-20°C ~ +85°C	
Storage temperature range	-40°C ~ +85°C	

### ■ 形名の説明/Part Numbering

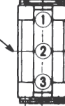


**SPDT**

**PC Straight**



Part number marking side



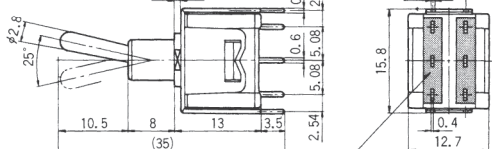
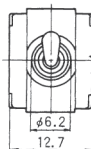
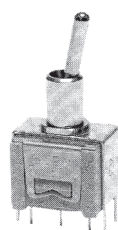
Rating marking side

Switching function	Viewed from part No. marking side		
Part No.			
☆BT1D-2M4-Z	ON	—	ON
BT1E-2M4-Z	ON	OFF	ON
★BT1F-2M4-Z	(ON)	—	ON
★BT1H-2M4-Z	(ON)	OFF	ON
Connecting terminals	2-1	—	2-3

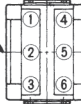
Terminal numbers are not shown on the switch.

**DPDT**

**PC Straight**



Part number marking side

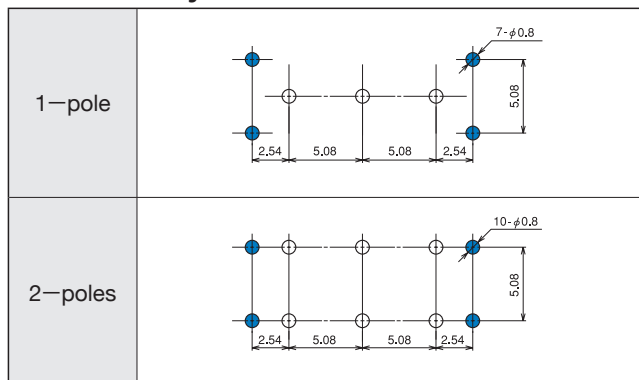


Rating marking side

Switching function	Viewed from part No. marking side		
Part No.			
★BT2N-2M4-Z	ON	—	ON
Connecting terminals	2-1 5-4	—	2-3 5-6

Terminal numbers are not shown on the switch.

**PC Hole Layouts**



**Optional Accessories**

《Sold separately》

Color Cap (Round type)		
Dimensions	Color	Part. No.
	White Red Black Gray	<b>140000470030</b> <b>140000470098</b> <b>140000470031</b> <b>140000470037</b>
Vinyl chloride resin		

Color Cap (Square type)		
Dimensions	Color	Part. No.
	White Red Black Gray	<b>140000470038</b> <b>140000470100</b> <b>140000470039</b> <b>140000470077</b>
Vinyl chloride resin		

## BT

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### ■ Soldering Specifications

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(1) Manual Soldering

Device : Soldering iron  
380°C, Max.; 3 seconds, Max.

(2) Auto Soldering

Device : Jet wave type or dip type  
275°C, Max.; 3 seconds, Max.

● Pre-heating should be done at temperatures below 100°C and within 30 sec.

(3) When soldering two or more terminals to the common land, use the solder resist to solder them independently.

### ■ Flux Cleaning

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(1) Solvent : Fluorine or Alcohol type.

(2) The **BT** series are not washable. To wash the PC board, clean the soldering surface of PC board with a brush so that the switch is not exposed to the cleaning solution.

(3) Cleaning after soldering should be done after the terminal temperature falls to 90°C or below, or after leaving the switch for five minutes or longer at room temperature.

### ■ Mounting of Switch

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● Use PC boards with hole diameter of 0.8mm.

● Do not bend the terminal pins before mounting the switch on the PC board.

● After mounting the switch, do not place the device in such a way that the device weight will be applied on to the actuator of the switch.

● Do not apply load exceeding 29.4N to the actuator.

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