

**SERIES:** MPB02 | **DESCRIPTION:** MINI PUSH BUTTON SWITCH**FEATURES**

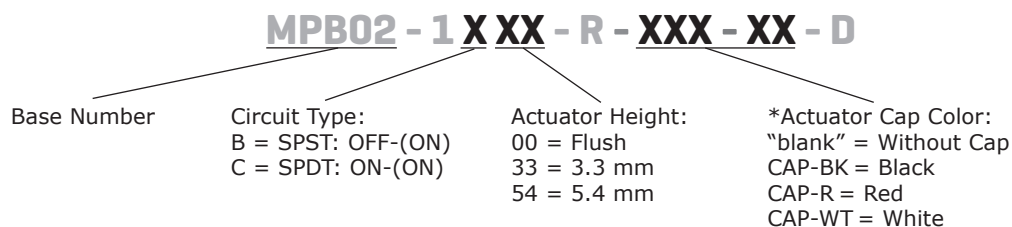
- single pole
- right angle
- cap options

**SPECIFICATIONS**

| parameter             | conditions/description                                   | min | typ    | max | units  |
|-----------------------|----------------------------------------------------------|-----|--------|-----|--------|
| rated voltage         |                                                          |     |        | 28  | Vdc    |
| rated current         |                                                          |     |        | 14  | mA     |
| withstanding voltage  | for 1 minute                                             |     | 500    |     | Vac    |
| contact resistance    |                                                          |     |        | 50  | mΩ     |
| insulation resistance | at 500 Vdc                                               | 500 |        |     | MΩ     |
| operating force       |                                                          | 150 | 250    | 350 | gf     |
| actuator travel       |                                                          |     | 1.1    |     | mm     |
| operating temperature |                                                          | -25 |        | 80  | °C     |
| life                  |                                                          |     | 20,000 |     | cycles |
| flammability rating   | see material table                                       |     |        |     |        |
| RoHS                  | yes                                                      |     |        |     |        |
| packaging             | tray QTY: 100 pcs per tray<br>box QTY: 1,200 pcs per box |     |        |     |        |

**SOLDERABILITY**

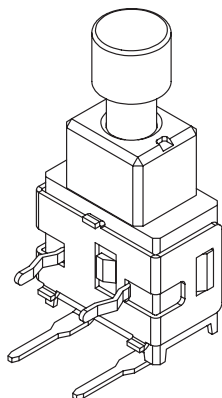
| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 3 seconds  |     |     | 350 | °C    |
| wave soldering | for maximum 5 seconds  |     |     | 270 | °C    |

**PART NUMBER KEY**

Note: \*Actuator cap only on 5.4 mm actuator height versions.

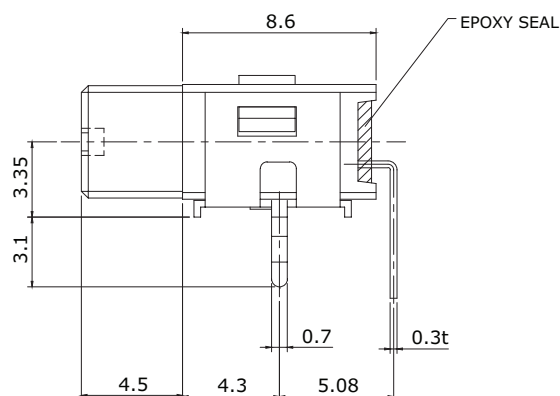
## MECHANICAL DRAWING (SPST CIRCUIT)

units: mm  
tolerance:  $\pm 0.3$  mm  
unless otherwise noted

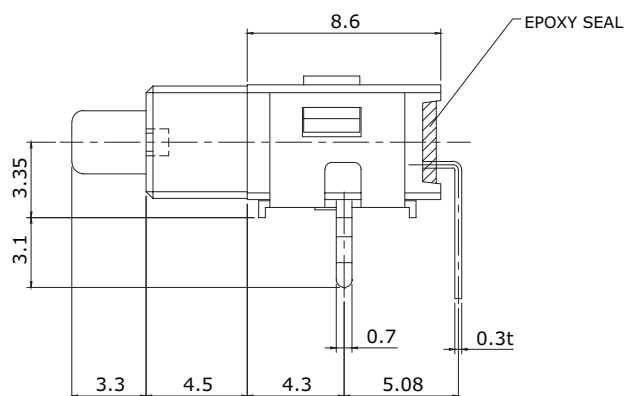


| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR                       |
|------|-------------|-----------------|-------------------------------------|
| 1    | actuator    | POM (UL94HB)    | white                               |
| 2    | housing     | PA66 (UL94V-0)  | black                               |
| 3    | terminals   | brass           | gold                                |
| 4    | bracket     | phosphor bronze | tin                                 |
| 5    | cap         | POM (UL94HB)    | black (BK)<br>red (R)<br>white (WT) |

## FLUSH ACTUATOR

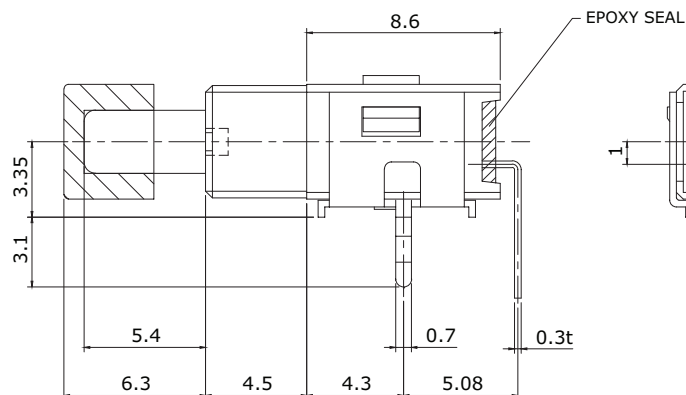
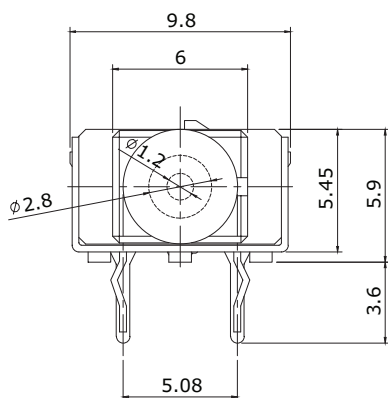


## 3.3 MM ACTUATOR

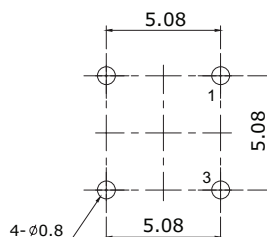
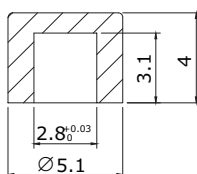


| ACTUATOR POSITION<br>( ): MOMENTARY |             |
|-------------------------------------|-------------|
| NORMAL                              | DOWN        |
| OFF                                 | (ON)<br>1-3 |
| SCHEMATIC                           |             |
|                                     |             |

## 5.4 MM ACTUATOR



## ACTUATOR CAP

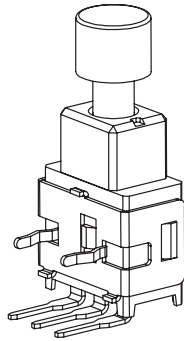


Recommended PCB Layout  
Top View

Note: \*Actuator cap only on 5.4 mm actuator height versions.

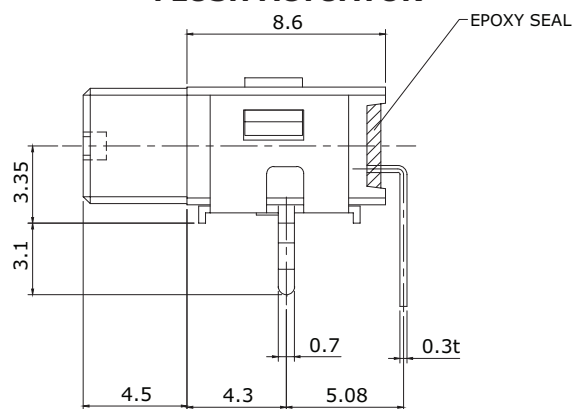
## MECHANICAL DRAWING (SPDT CIRCUIT)

units: mm  
tolerance:  $\pm 0.3$  mm  
unless otherwise noted

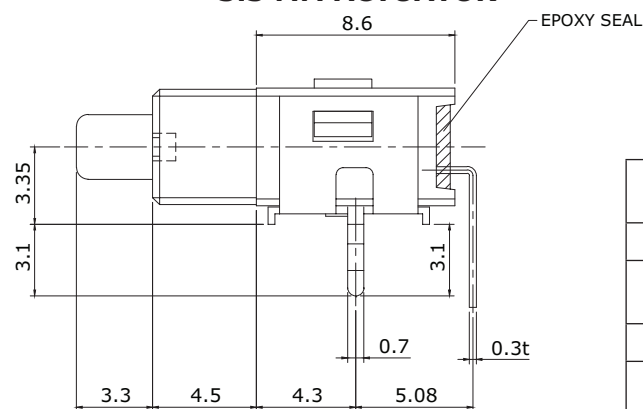


| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR                       |
|------|-------------|-----------------|-------------------------------------|
| 1    | actuator    | POM (UL94HB)    | white                               |
| 2    | housing     | PA66 (UL94V-0)  | black                               |
| 3    | terminals   | brass           | gold                                |
| 4    | bracket     | phosphor bronze | tin                                 |
| 5    | cap         | POM (UL94HB)    | black (BK)<br>red (R)<br>white (WT) |

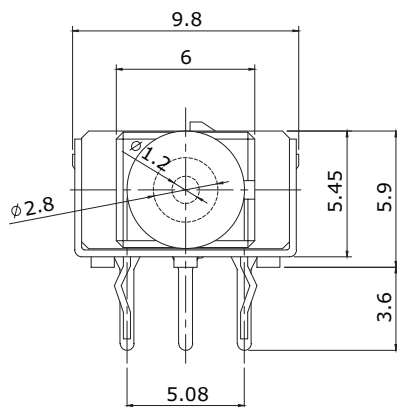
### FLUSH ACTUATOR



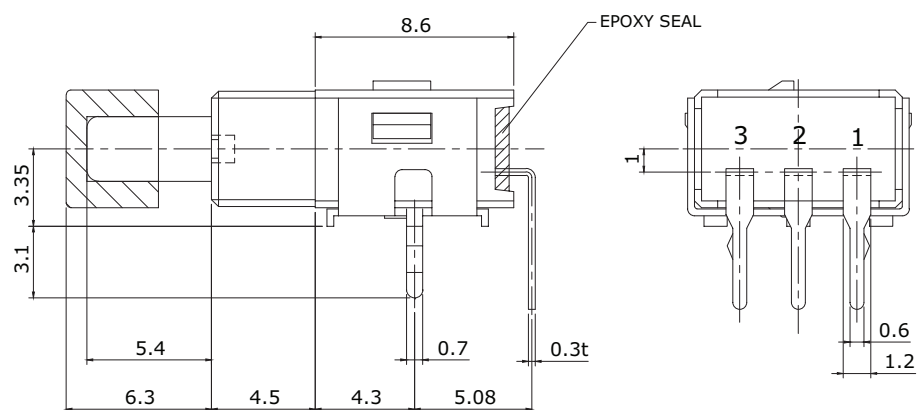
### 3.3 MM ACTUATOR



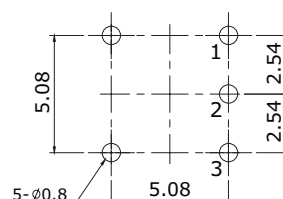
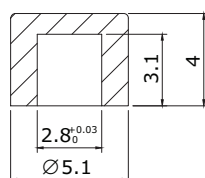
| ACTUATOR POSITION<br>( ): MOMENTARY |             |
|-------------------------------------|-------------|
| NORMAL                              | DOWN        |
| ON<br>2-3                           | (ON)<br>2-1 |
| SCHEMATIC                           |             |
|                                     |             |



### 5.4 MM ACTUATOR



### ACTUATOR CAP



Recommended PCB Layout  
Top View

Note: \*Actuator cap only on 5.4 mm actuator height versions.

## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 06/03/2021 |

The revision history provided is for informational purposes only and is believed to be accurate.

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