

**SERIES:** MPB01 | **DESCRIPTION:** MINI PUSH BUTTON SWITCH

**FEATURES**

- single pole
- through hole
- bracket options
- cap options



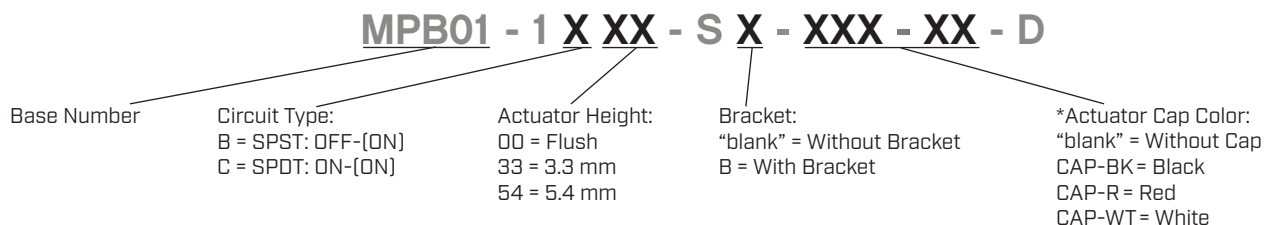
**SPECIFICATIONS**

| 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    |

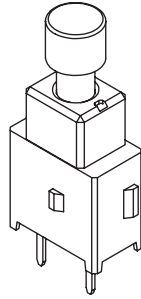
**PART NUMBER KEY**



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

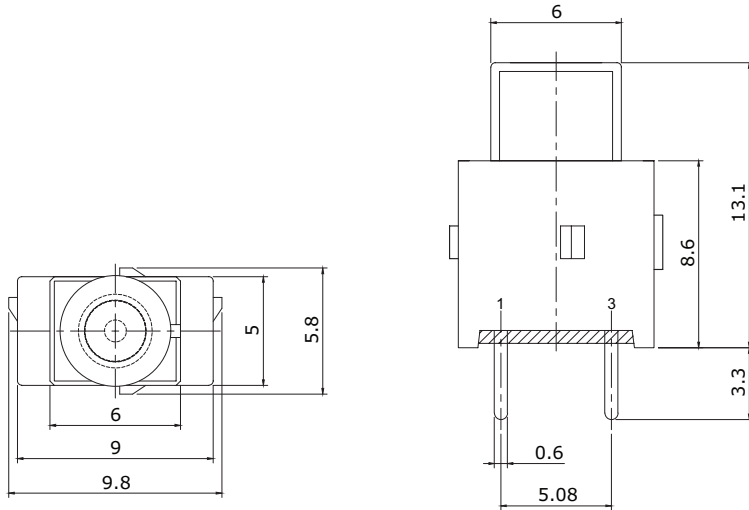
## MECHANICAL DRAWING (SPST CIRCUIT WITHOUT BRACKET)

units: mm  
tolerance: ±0.3 mm  
unless otherwise noted

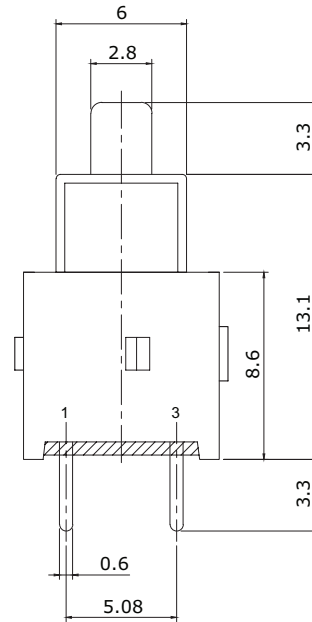


| ITEM | DESCRIPTION | MATERIAL       | PLATING/COLOR                       |
|------|-------------|----------------|-------------------------------------|
| 1    | actuator    | POM (UL94HB)   | white                               |
| 2    | housing     | PA66 (UL94V-0) | black                     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

### FLUSH ACTUATOR

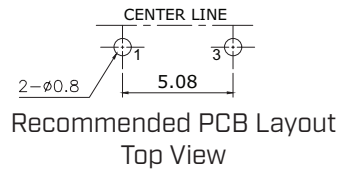
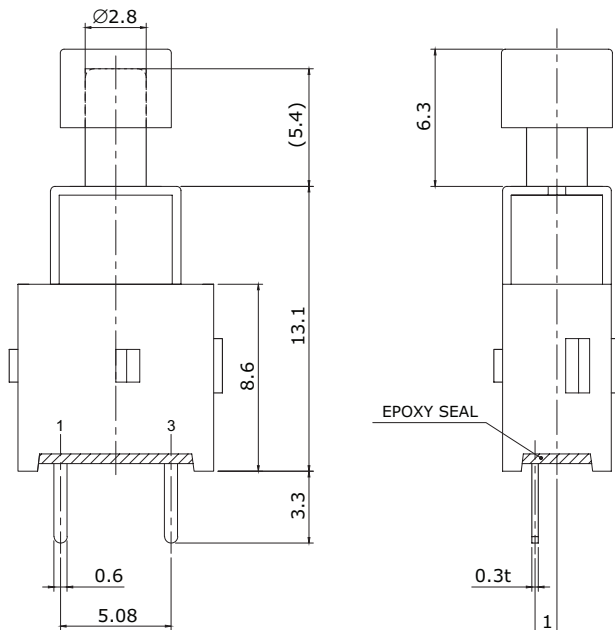


### 3.3 MM ACTUATOR

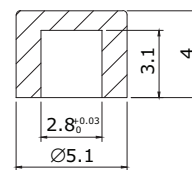


| ACTUATOR POSITION<br>[ ]: MOMENTARY |             |
|-------------------------------------|-------------|
| NORMAL                              | DOWN        |
| OFF                                 | [ON]<br>1-3 |
| SCHEMATIC                           |             |
|                             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

### 5.4 MM ACTUATOR



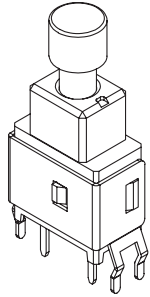
### ACTUATOR CAP



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

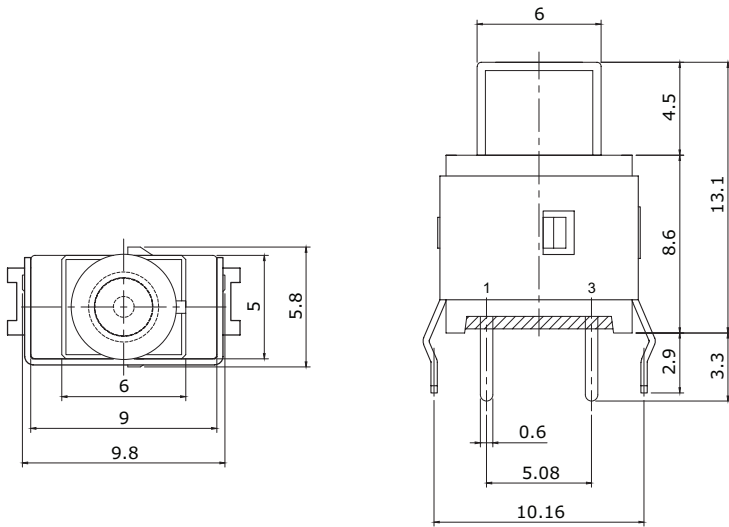
## MECHANICAL DRAWING (SPST CIRCUIT WITH BRACKET)

units: mm  
tolerance: ±0.3 mm  
unless otherwise noted

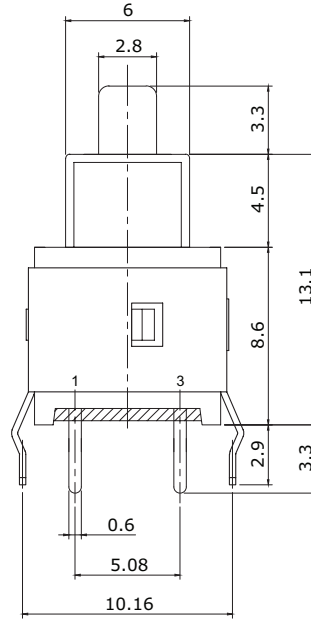


| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR                       |
|------|-------------|-----------------|-------------------------------------|
| 1    | actuator    | POM (UL94HB)    | white                               |
| 2    | housing     | PA66 (UL94V-0)  | black                 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

### FLUSH ACTUATOR

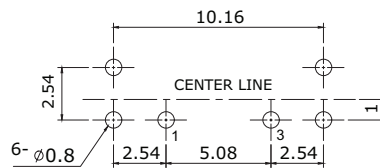
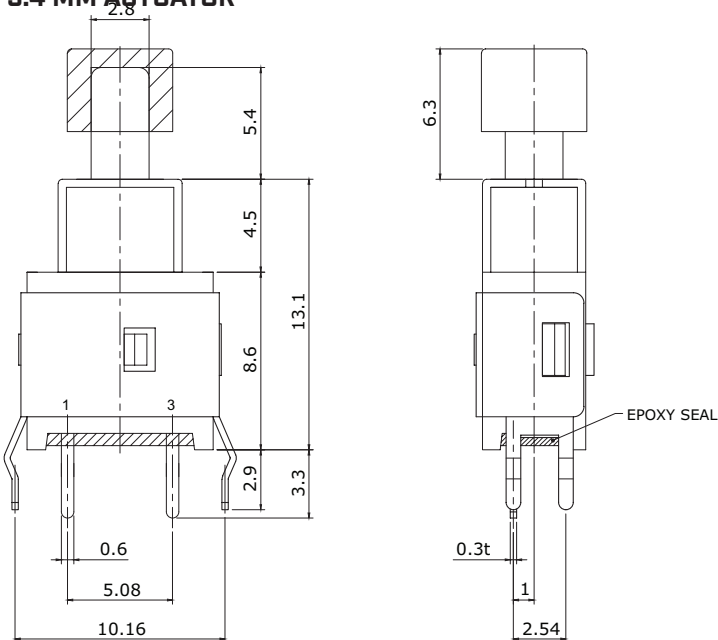


### 3.3 MM ACTUATOR



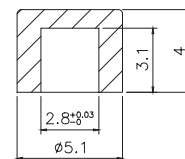
| ACTUATOR POSITION<br>[ ]: MOMENTARY |             |
|-------------------------------------|-------------|
| NORMAL                              | DOWN        |
| OFF                                 | [ON]<br>1-3 |
| SCHEMATIC                           |             |
|                             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

### 5.4 MM ACTUATOR



Recommended PCB Layout  
Top View

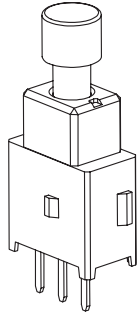
### ACTUATOR CAP



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

## MECHANICAL DRAWING (SPDT CIRCUIT WITHOUT BRACKET)

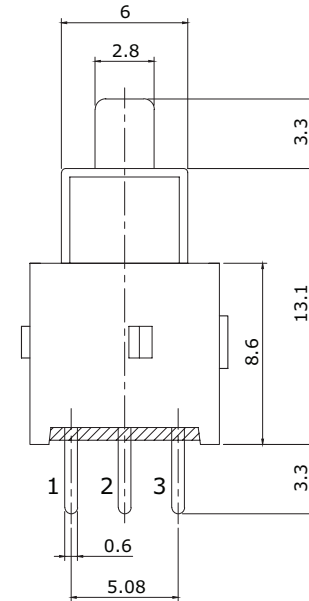
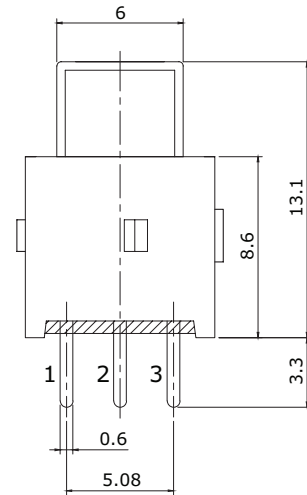
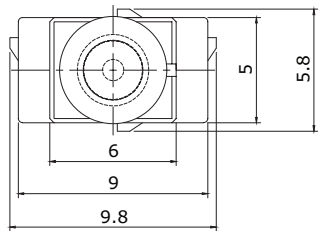
units: mm  
tolerance: ±0.3 mm  
unless otherwise noted



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|------|-------------|----------------|-------------------------------------|
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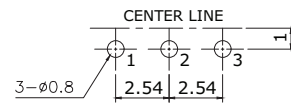
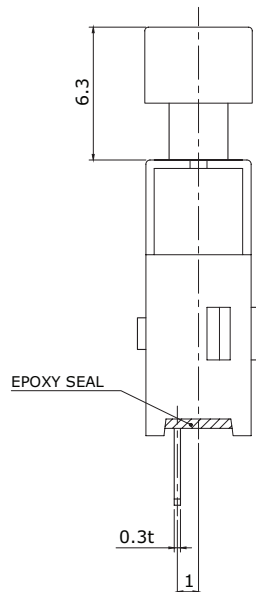
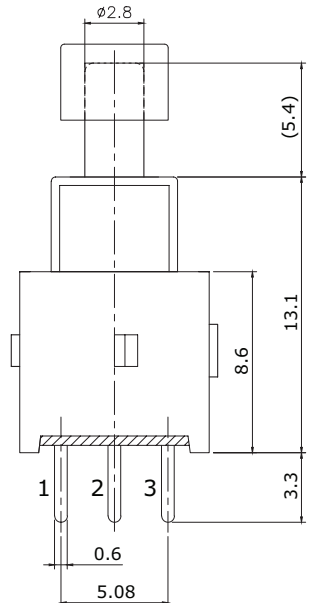
**FLUSH ACTUATOR**

**3.3 MM ACTUATOR**



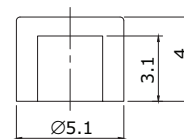
| ACTUATOR POSITION<br>[ ]: MOMENTARY |             |
|-------------------------------------|-------------|
| NORMAL                              | DOWN        |
| ON<br>2-3                           | [ON]<br>2-1 |
| SCHEMATIC                           |             |
|                             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

**5.4 MM ACTUATOR**



Recommended PCB Layout  
Top View

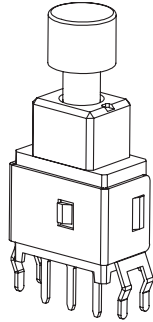
**ACTUATOR CAP**



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

## MECHANICAL DRAWING (SPDT CIRCUIT WITH BRACKET)

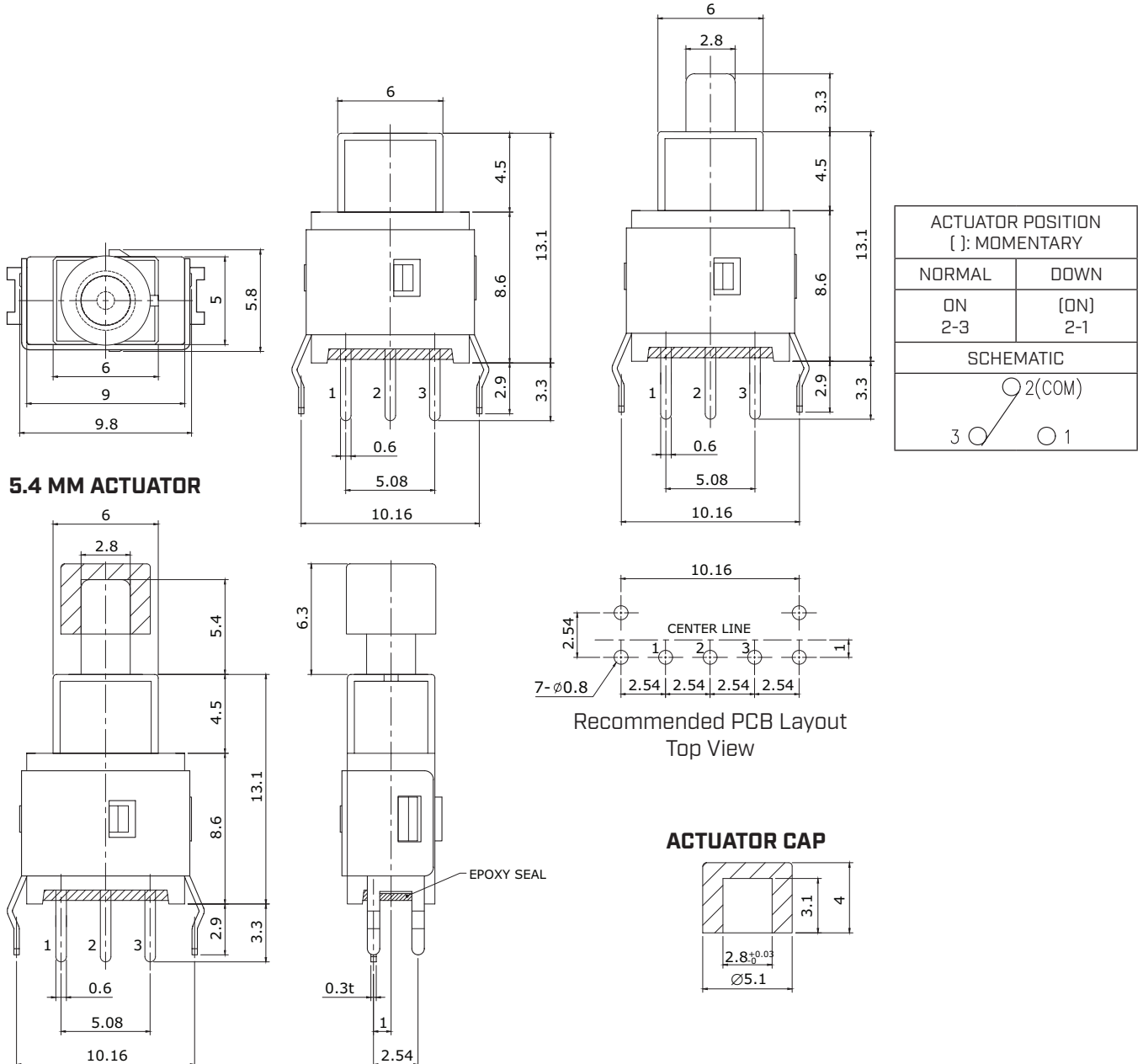
units: mm  
tolerance: ±0.3 mm  
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| 5    | cap         | POM (UL94HB)    | black (BK)<br>red (R)<br>white (WT) |

### FLUSH ACTUATOR

### 3.3 MM ACTUATOR



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

## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 06/03/2021 |
| 1.01 | logo, datasheet style update | 08/05/2022 |

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



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