

**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****MPB01 - 1 X XX - S X - XXX - XX - D**

Base Number

Circuit Type:

B = SPST: OFF-[ON]

C = SPDT: ON-[ON]

Actuator Height:

00 = Flush

33 = 3.3 mm

54 = 5.4 mm

Bracket:

"blank" = Without Bracket

B = With Bracket

\*Actuator Cap Color:

"blank" = Without Cap

CAP-BK = Black

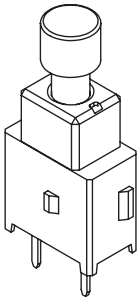
CAP-R = Red

CAP-WT = White

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

MECHANICAL DRAWING (SPST CIRCUIT WITHOUT BRACKET)

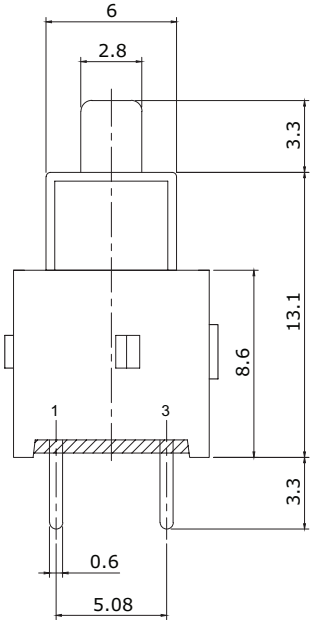
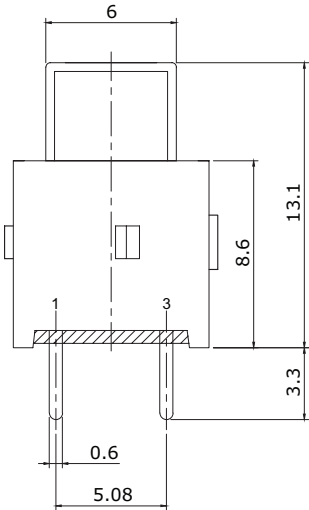
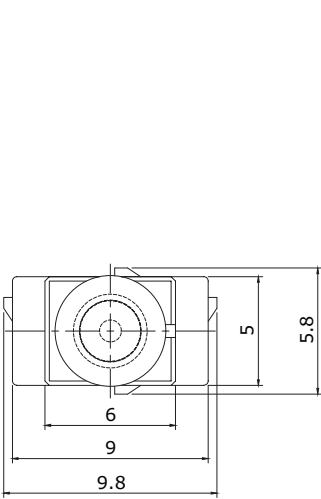
units: mm  
tolerance: ±0.3 mm  
unless otherwise noted



| 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] |

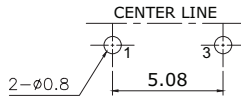
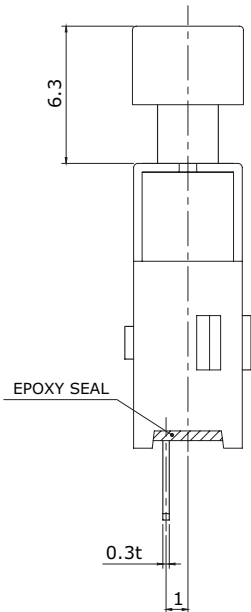
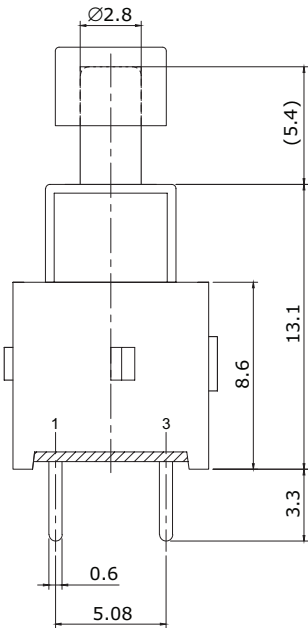
FLUSH ACTUATOR

3.3 MM ACTUATOR



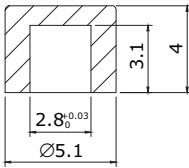
| ACTUATOR POSITION<br>[ ]: MOMENTARY |             |
|-------------------------------------|-------------|
| NORMAL                              | DOWN        |
| OFF                                 | [ON]<br>1-3 |
| SCHEMATIC                           |             |
|                             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

5.4 MM ACTUATOR



Recommended PCB Layout  
Top View

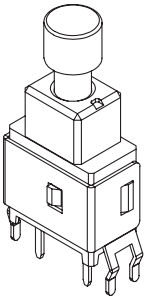
ACTUATOR CAP



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

MECHANICAL DRAWING (SPST CIRCUIT WITH BRACKET)

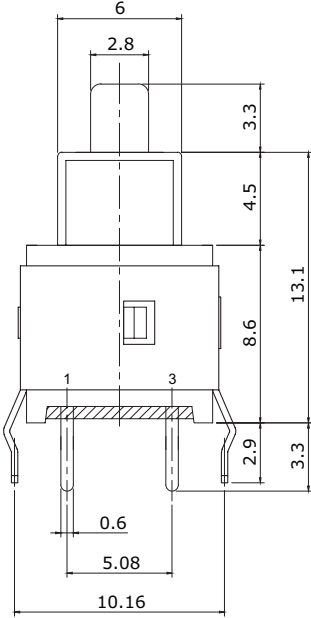
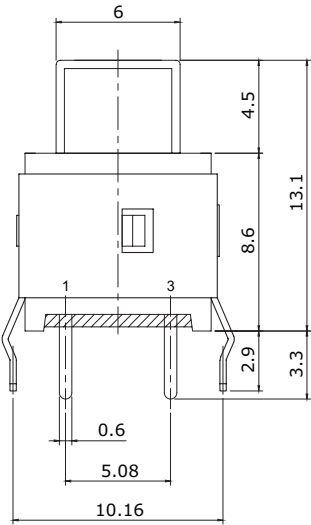
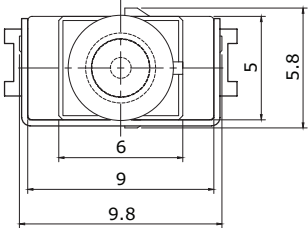
units: mm  
tolerance: ±0.3 mm  
unless otherwise noted



| 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] |

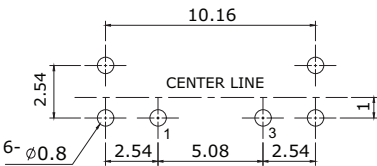
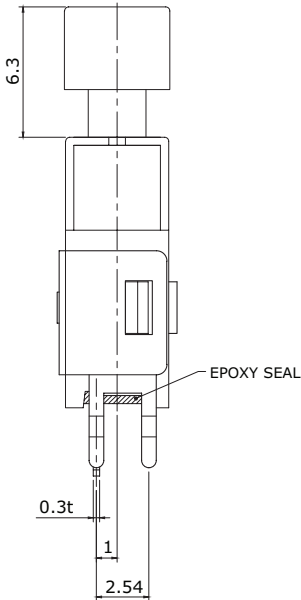
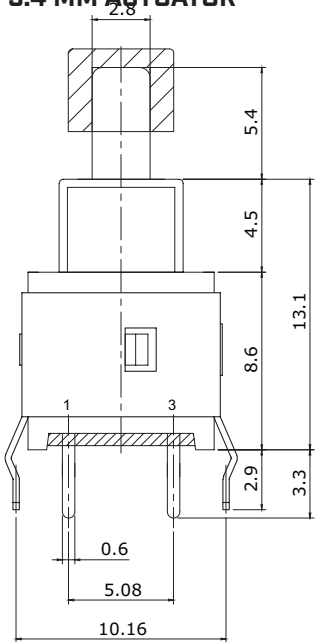
FLUSH ACTUATOR

3.3 MM ACTUATOR



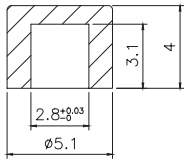
| ACTUATOR POSITION<br>[ ]: MOMENTARY |             |
|-------------------------------------|-------------|
| NORMAL                              | DOWN        |
| OFF                                 | [ON]<br>1-3 |
| SCHEMATIC                           |             |
|                             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

5.4 MM ACTUATOR



Recommended PCB Layout  
Top View

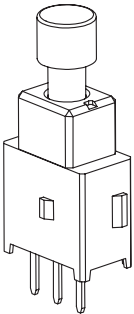
ACTUATOR CAP



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

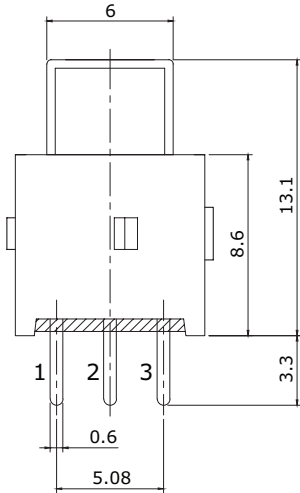
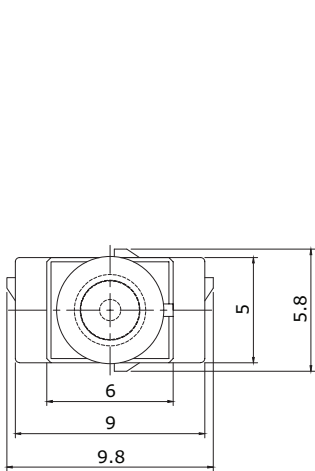
MECHANICAL DRAWING (SPDT CIRCUIT WITHOUT BRACKET)

units: mm  
tolerance: ±0.3 mm  
unless otherwise noted

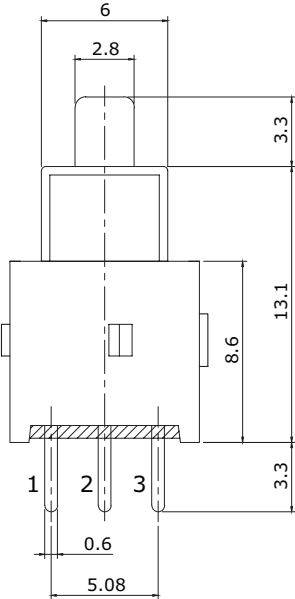


FLUSH ACTUATOR

| 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] |

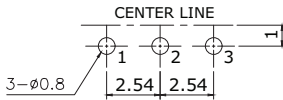
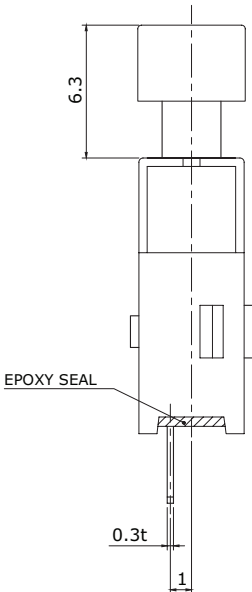
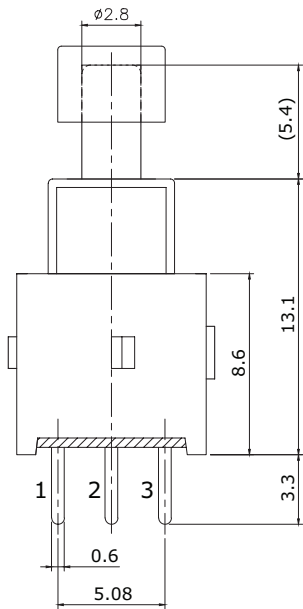


3.3 MM ACTUATOR



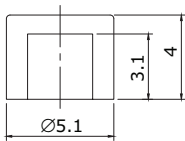
| ACTUATOR POSITION<br>[ ]: MOMENTARY |             |
|-------------------------------------|-------------|
| NORMAL                              | DOWN        |
| ON<br>2-3                           | [ON]<br>2-1 |
| SCHEMATIC                           |             |
|                             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

5.4 MM ACTUATOR



Recommended PCB Layout  
Top View

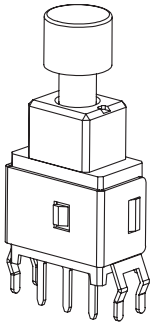
ACTUATOR CAP



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

MECHANICAL DRAWING (SPDT CIRCUIT WITH BRACKET)

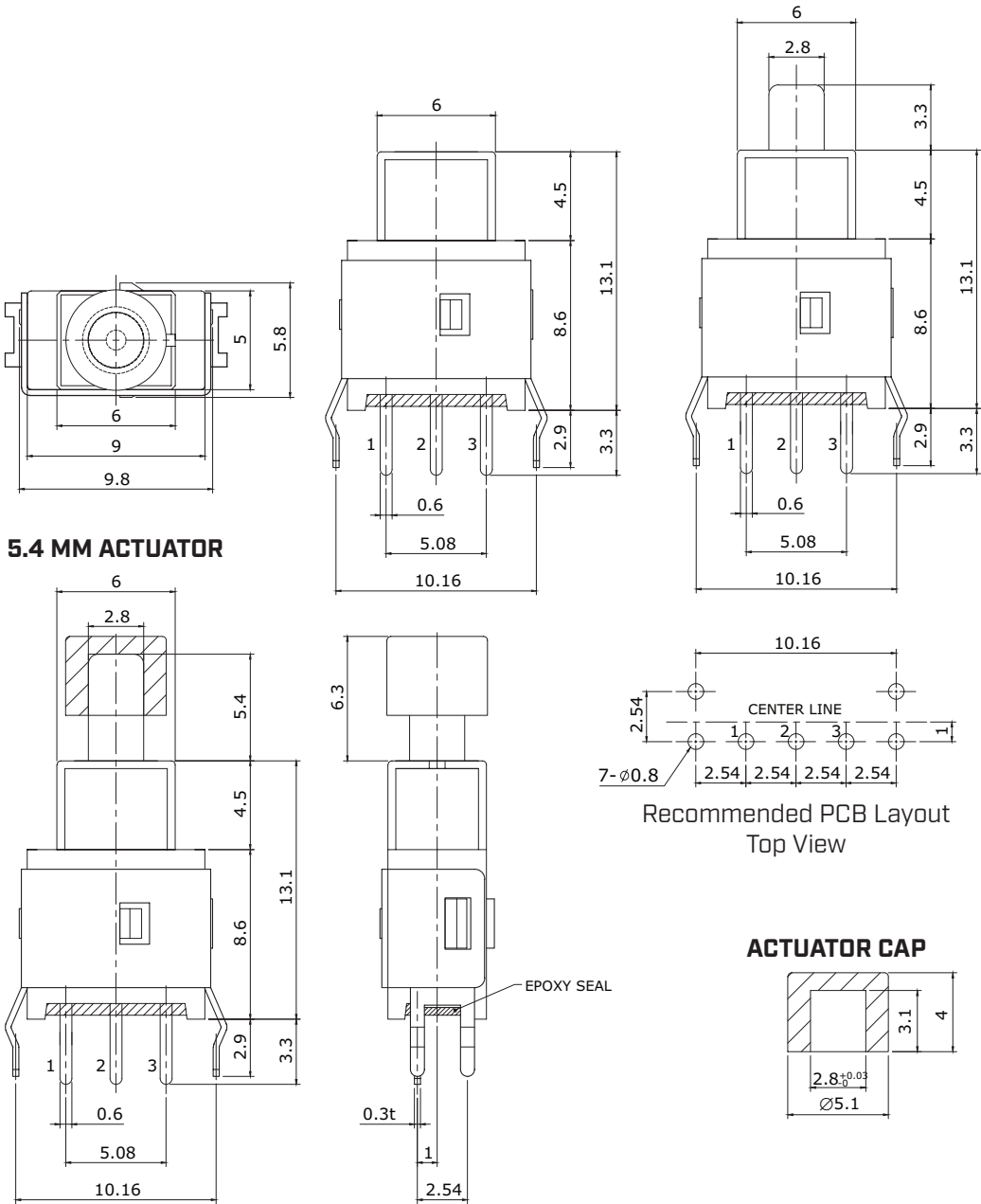
units: mm  
tolerance: ±0.3 mm  
unless otherwise noted



| 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                           |             |
| 3                                   | 2(COM)<br>1 |

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 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

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