CUI Devices is now Same Sky! Learn More

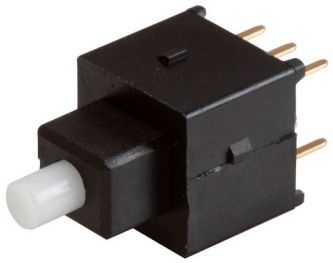
same sky



# SERIES: MPB04 | DESCRIPTION: MINI PUSH BUTTON SWITCH

## FEATURES

- double pole
- through hole
- cap options



RoHS

## 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 | | 250 | 350 | 450 | 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

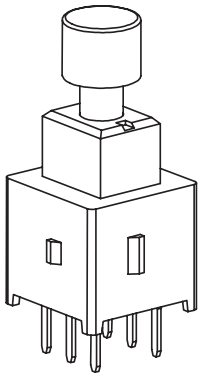
MPB04 - 2 X XX - S - XXX - XX - D

- MPB04 — Base Number
- X — Circuit Type: C = DPDT: ON-(ON)
- XX — Actuator Height: 33 = 3.3 mm; 54 = 5.4 mm
- XXX - XX — *Actuator Cap Color: "blank" = Without Cap; CAP-BK = Black; CAP-R = Red; CAP-WT = White

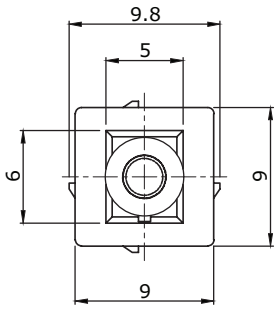
Note: *Actuator cap only on 5.4 mm actuator height versions.

# MECHANICAL DRAWING (DPDT CIRCUIT)

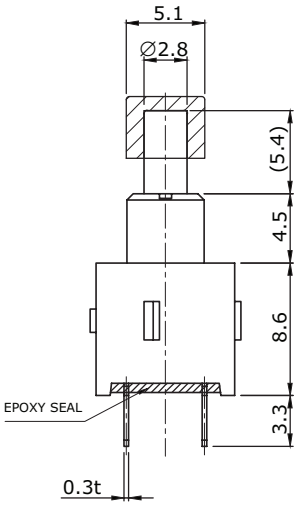
units: mm
tolerance: ±0.3 mm
unless otherwise noted



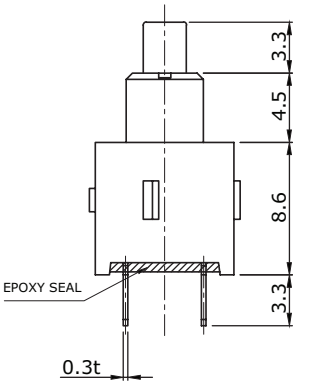
| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|---|
| 1 | actuator | POM (UL94HB) | white |
| 2 | housing | PA66 (UL94V-0) | black |
| 3 | terminals | brass | gold |
| 4 | cap | POM (UL94HB) | black (BK)<br>red (R)<br>white (WT) |

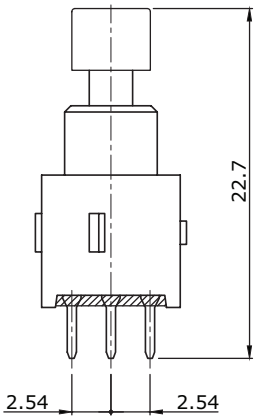



**5.4 MM ACTUATOR**

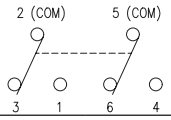


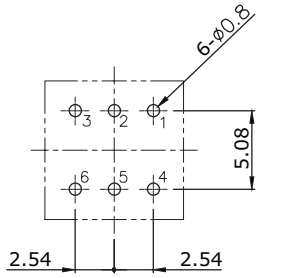

**3.3 MM ACTUATOR**



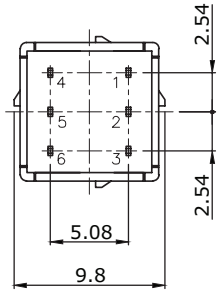




| ACTUATOR POSITION<br>[ ]: MOMENTARY | |
|---|---|
| NORMAL | DOWN |
| ON<br>2-3<br>5-6 | [ON]<br>2-1<br>5-4 |
| SCHEMATIC | |

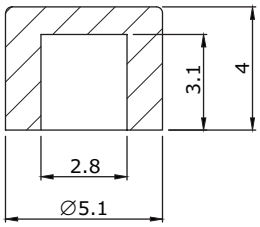



Recommended PCB Layout
Top View




**ACTUATOR CAP**




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

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