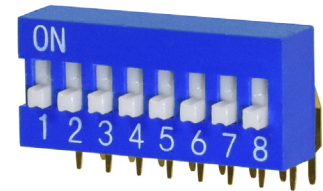


**SERIES:** DS03-254 | **DESCRIPTION:** DIP SWITCH**FEATURES**

- 2.54 mm pitch
- 2~12 pole options
- right angle pin
- raised actuator
- through hole

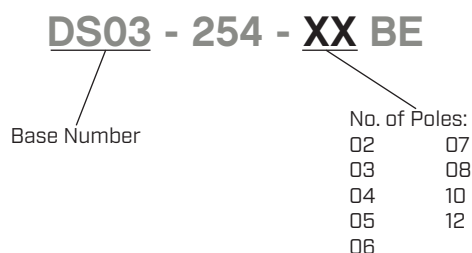
**SPECIFICATIONS**

| parameter                | conditions/description     | min  | typ | max       | units      |
|--------------------------|----------------------------|------|-----|-----------|------------|
| rated voltage (per pole) | switching<br>non-switching |      |     | 24<br>50  | Vdc<br>Vdc |
| rated current (per pole) | switching<br>non-switching |      |     | 25<br>100 | mA<br>mA   |
| withstanding voltage     | for 1 minute               |      | 500 |           | Vac        |
| contact resistance       | initial<br>after life test |      |     | 50<br>100 | mΩ<br>mΩ   |
| insulation resistance    | at 500 Vdc                 | 100  |     |           | MΩ         |
| operating force          |                            |      |     | 1000      | g          |
| switch travel            |                            |      |     | 2         | mm         |
| operating temperature    |                            | -40  |     | 85        | °C         |
| storage temperature      |                            | -40  |     | 85        | °C         |
| life                     |                            | 2000 |     |           | cycles     |
| flammability rating      | UL94V-0                    |      |     |           |            |
| RoHS                     | yes                        |      |     |           |            |

**SOLDERABILITY**

| parameter                   | conditions/description | min | typ | max | units |
|-----------------------------|------------------------|-----|-----|-----|-------|
| hand soldering <sup>1</sup> | for maximum 3 seconds  | 315 | 320 | 325 | °C    |
| wave soldering <sup>1</sup> | for maximum 5 seconds  | 240 | 250 | 260 | °C    |

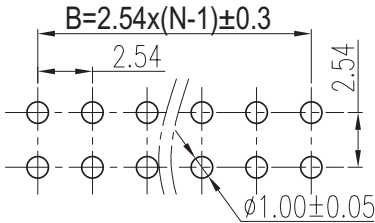
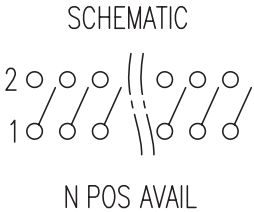
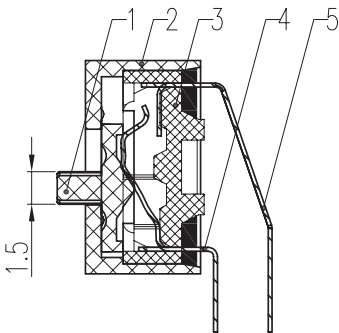
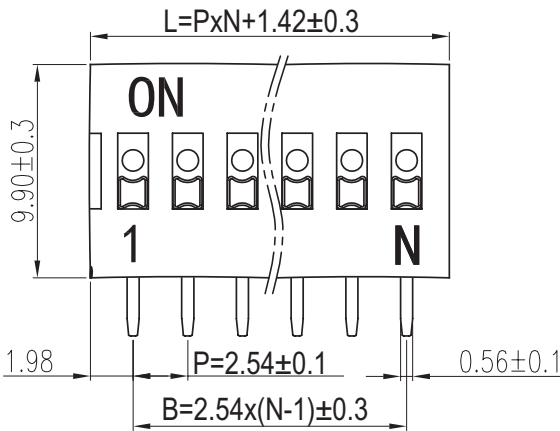
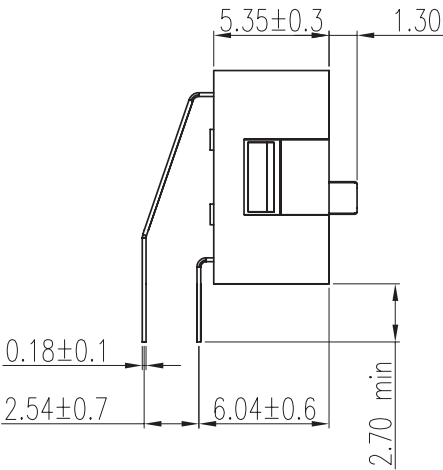
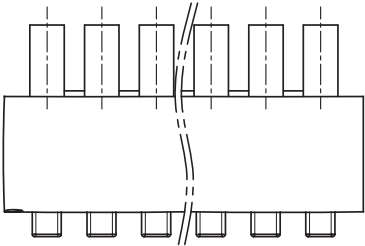
Notes: 1. Keep in "off" position during soldering.

**PART NUMBER KEY**

MECHANICAL DRAWING

units: mm  
tolerance:  
0.5<X≤3.0: ±0.15 mm  
3.0<X≤6.0: ±0.20 mm  
6.0<X≤30.0: ±0.25 mm  
30.0<X≤120.0: ±0.30 mm  
120.0<X≤400.0: ±0.50 mm  
X>400.0: ±0.80 mm  
unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL      | PLATING/COLOR |
|------|-------------|---------------|---------------|
| 1    | actuator    | PBT [UL94V-0] | white         |
| 2    | housing     | PBT [UL94V-0] | blue          |
| 3    | base        | PBT [UL94V-0] | black         |
| 4    | pin 1       | copper alloy  | gold          |
| 5    | pin 2       | copper alloy  | gold          |



Recommended PCB Layout  
Top View

|                                                                                                                               |      |      |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|
| This series is constructed of single piece modules where L is the total length, P is the pitch, and N is the number of poles. |      |      |       |       |       |       |       |       |       |
| N                                                                                                                             | 02   | 03   | 04    | 05    | 06    | 07    | 08    | 10    | 12    |
| L                                                                                                                             | 6.50 | 9.04 | 11.58 | 14.12 | 16.66 | 19.20 | 21.74 | 26.82 | 31.90 |
| B                                                                                                                             | 2.54 | 5.08 | 7.62  | 10.16 | 12.70 | 15.24 | 17.78 | 22.86 | 27.94 |

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 11/21/2019 |
| 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.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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