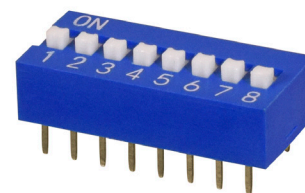


**SERIES:** DS01-254 | **DESCRIPTION:** DIP SWITCH**FEATURES**

- 2.54 mm pitch
- convex or flat bottom option
- 1~12 pole options
- long or short pin option
- raised actuator
- through hole

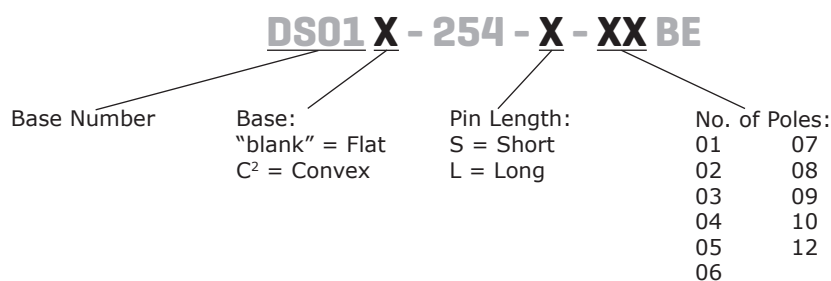
**SPECIFICATIONS**

| 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               |      | 300 |           | 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**

Notes: 2. Convex base only available in poles 3~12.

## MECHANICAL DRAWING

units: mm

tolerance:

0.5&lt;X≤3.0: ±0.15 mm

3.0&lt;X≤6.0: ±0.20 mm

6.0&lt;X≤30.0: ±0.25 mm

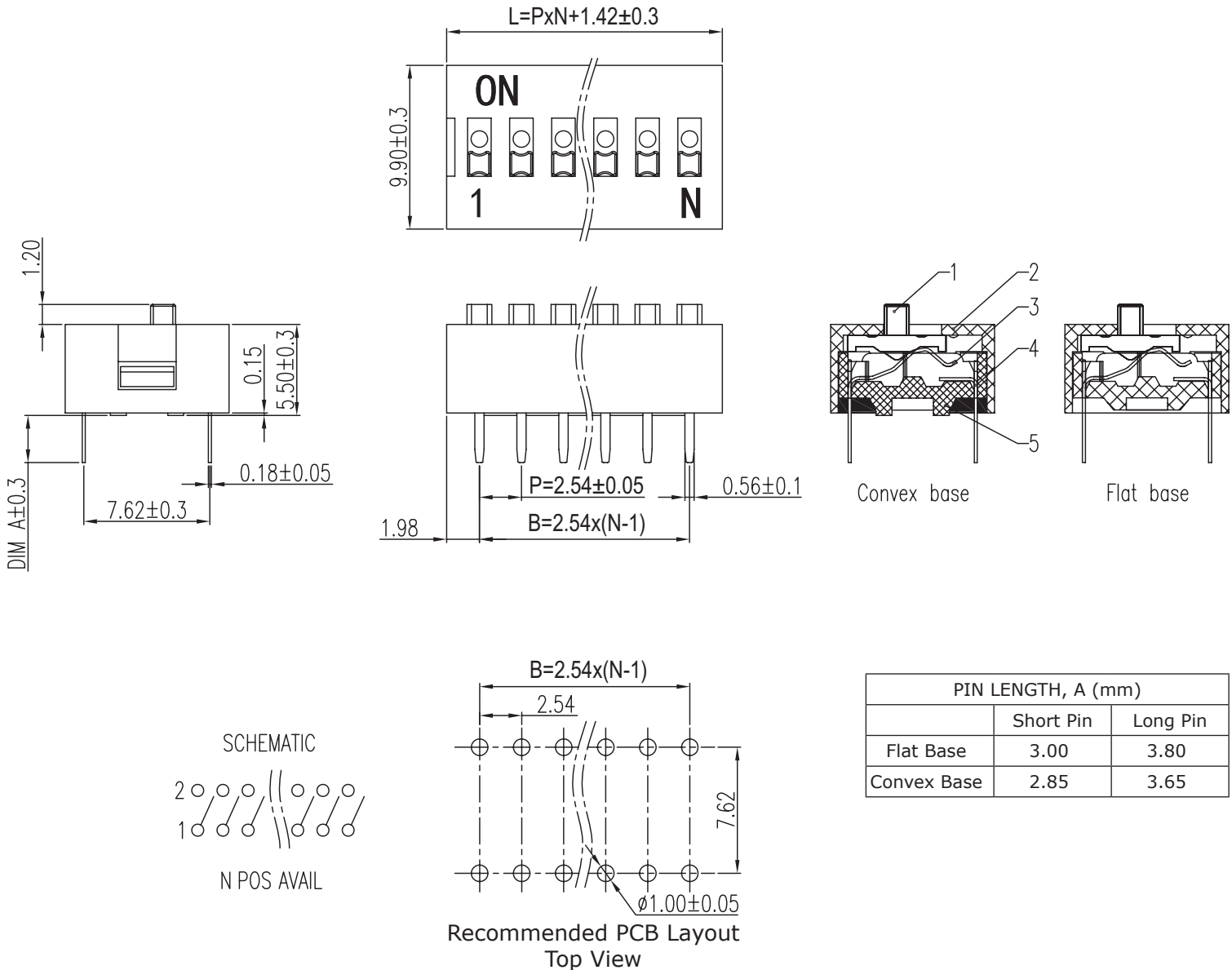
30.0&lt;X≤120.0: ±0.30 mm

120.0&lt;X≤400.0: ±0.50 mm

X&gt;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    | pin 1       | copper alloy  | gold          |
| 4    | pin 2       | copper alloy  | gold          |
| 5    | base        | PBT (UL94V-0) | black         |



| PIN LENGTH, A (mm) |           |          |
|--------------------|-----------|----------|
|                    | Short Pin | Long Pin |
| Flat Base          | 3.00      | 3.80     |
| Convex Base        | 2.85      | 3.65     |

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 | 01   | 02   | 03   | 04    | 05    | 06    | 07    | 08    | 09    | 10    | 12    |
|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 3.96 | 6.50 | 9.04 | 11.58 | 14.12 | 16.66 | 19.20 | 21.74 | 24.28 | 26.82 | 31.90 |
| B | --   | 2.54 | 5.08 | 7.62  | 10.16 | 12.70 | 15.24 | 17.78 | 20.32 | 22.86 | 27.94 |

## REVISION HISTORY

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

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

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# CUI DEVICES

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

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