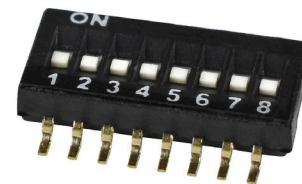


**SERIES:** DS05-127-SMT | **DESCRIPTION:** DIP SWITCH**FEATURES**

- 1.27 mm pitch
- 2-10 pole options
- flat actuator
- surface mount
- tape & reel packaging

**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          |                            |      |     | 800       | g          |
| switch travel            |                            |      |     | 0.6       | mm         |
| operating temperature    |                            | -40  |     | 85        | °C         |
| storage temperature      |                            | -40  |     | 85        | °C         |
| life                     |                            | 2000 |     |           | cycles     |
| flammability rating      | UL94V-0                    |      |     |           |            |
| RoHS                     | yes                        |      |     |           |            |

**PART NUMBER KEY**

**DS05 - 127- 2 - XX BK - SMT - TR**

Base Number

No. of Poles:

02    06

03    08

04    10

## 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

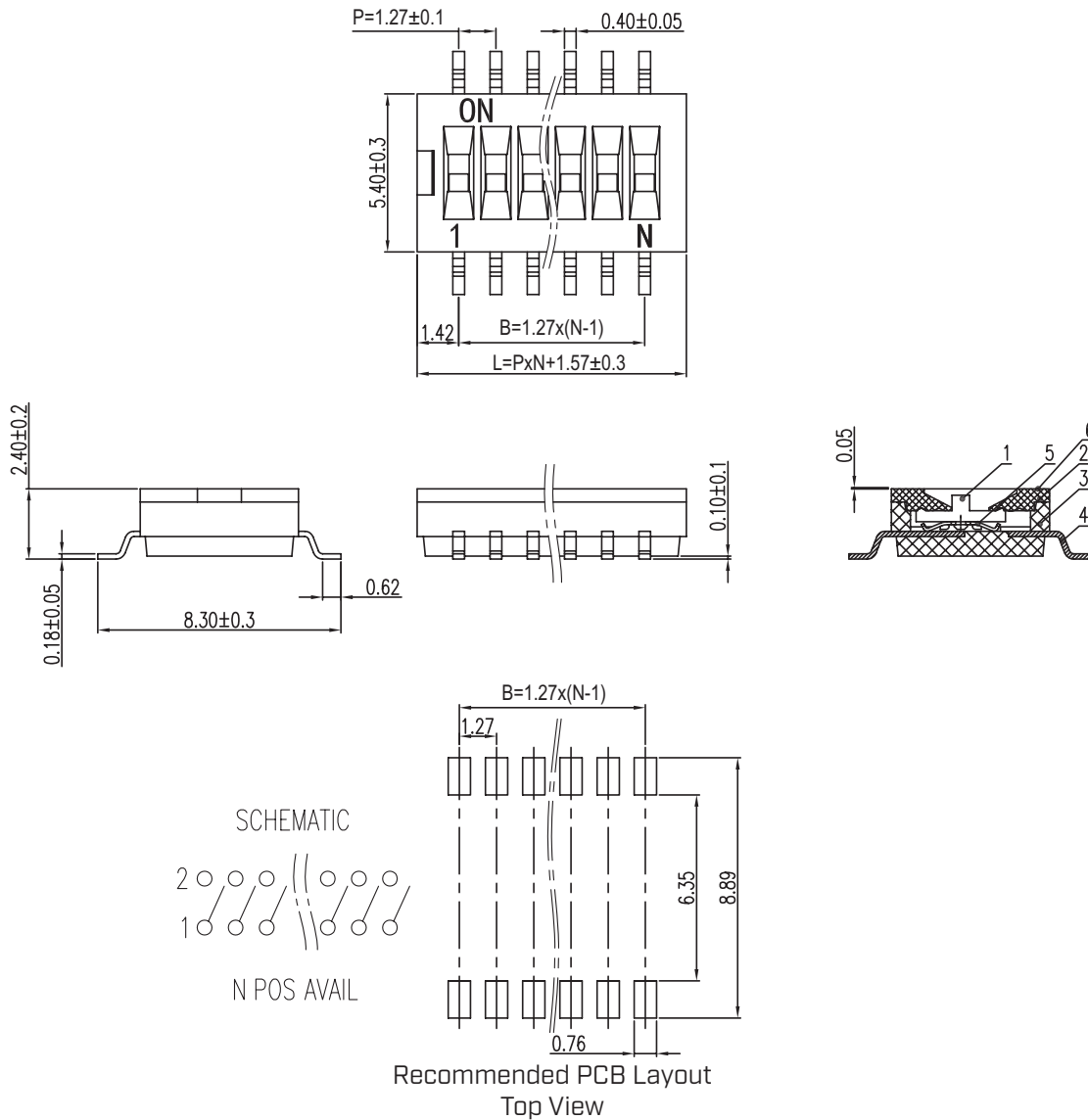
30.0<X≤120.0: ±0.30 mm

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] | black         |
| 3    | base        | PBT [UL94V-0] | black         |
| 4    | pin         | copper alloy  | gold          |
| 5    | spring      | copper alloy  | gold          |
| 6    | tape        | polyimide     |               |



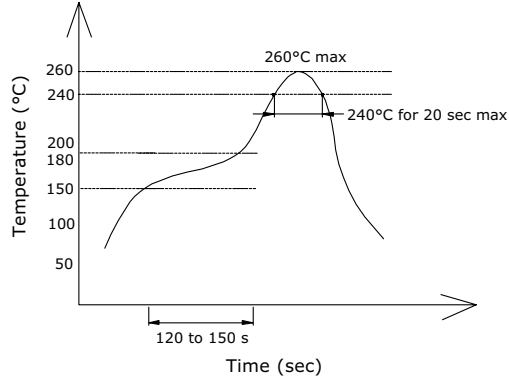
This series is constructed of single piece modules where L is the total length, P is the pitch, and N is the number of poles.

|   |      |      |      |      |       |       |
|---|------|------|------|------|-------|-------|
| N | 02   | 03   | 04   | 06   | 08    | 10    |
| L | 4.11 | 5.38 | 6.65 | 9.19 | 11.73 | 14.27 |
| B | 1.27 | 2.54 | 3.81 | 6.35 | 8.89  | 11.43 |

## SOLDERABILITY

| parameter                     | conditions/description      | min | typ | max | units |
|-------------------------------|-----------------------------|-----|-----|-----|-------|
| hand soldering <sup>1</sup>   | for maximum 3 seconds       | 315 | 320 | 325 | °C    |
| reflow soldering <sup>1</sup> | 240-260 °C (20 seconds max) |     |     | 260 | °C    |

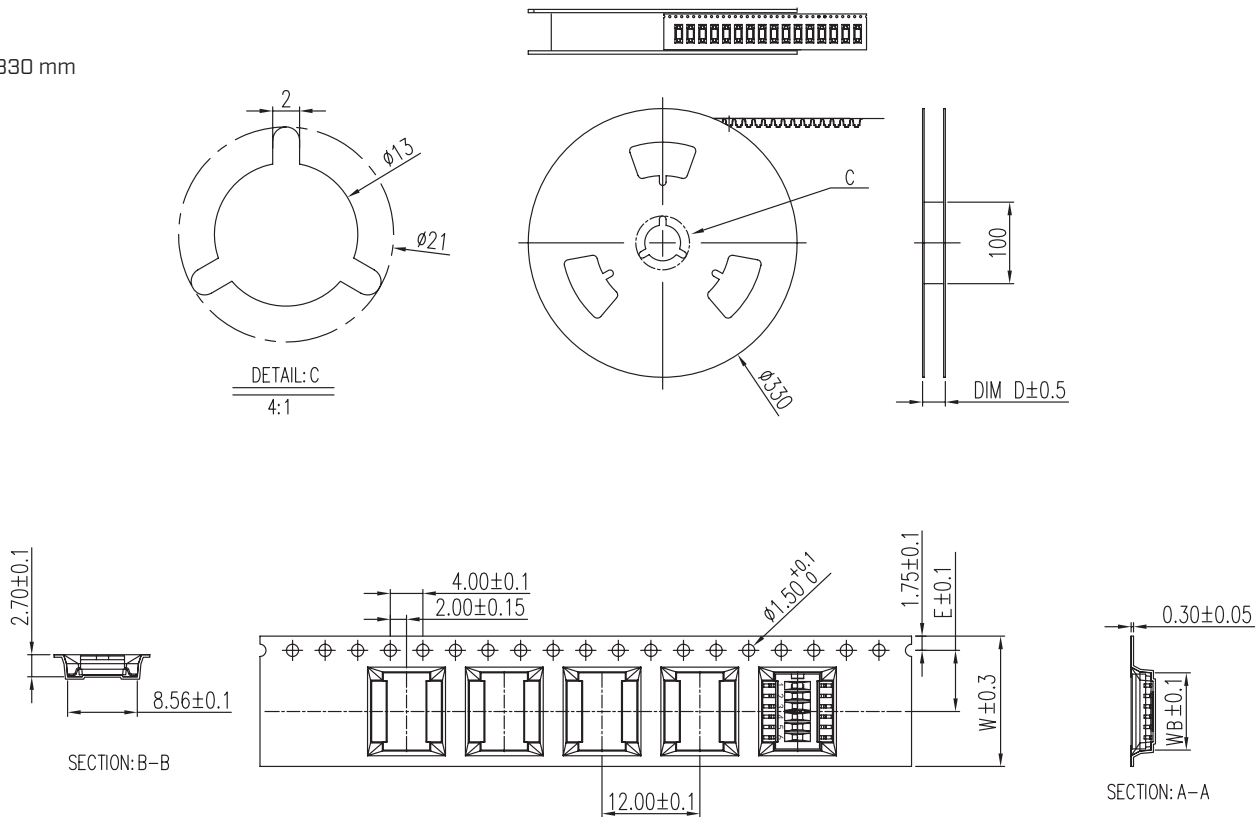
Notes: 1. Keep in "off" position during soldering.



## PACKAGING (TAPE & REEL)

units: mm

Reel Size: Ø330 mm



| Tape Dimensions |        |         |        |        |       |
|-----------------|--------|---------|--------|--------|-------|
| #Poles          | W (mm) | WB (mm) | E (mm) | D (mm) | QTY   |
| 2               | 16.00  | 4.41    | 7.50   | 20.4   | 2,000 |
| 3               | 16.00  | 5.68    | 7.50   | 20.4   | 2,000 |
| 4               | 16.00  | 6.95    | 7.50   | 20.4   | 2,000 |
| 6               | 16.00  | 9.49    | 7.50   | 20.4   | 2,000 |
| 8               | 24.00  | 11.88   | 11.50  | 28.4   | 2,000 |
| 10              | 24.00  | 14.42   | 11.50  | 28.4   | 2,000 |

## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 11/26/2019 |
| 1.01 | logo, datasheet style update | 08/05/2022 |

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



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

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