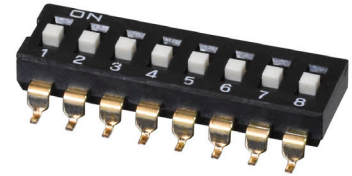


**SERIES:** DS04-254-SMT | **DESCRIPTION:** DIP SWITCH

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**FEATURES**

- 2.54 mm pitch
- 1-12 pole options
- raised or flat actuator option
- surface mount
- tube or 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               |      | 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            |                            |      |     | 0.9       | mm         |
| operating temperature    |                            | -40  |     | 85        | °C         |
| storage temperature      |                            | -40  |     | 85        | °C         |
| life                     |                            | 2000 |     |           | cycles     |
| flammability rating      | UL94V-0                    |      |     |           |            |
| RoHS                     | yes                        |      |     |           |            |

**PART NUMBER KEY**

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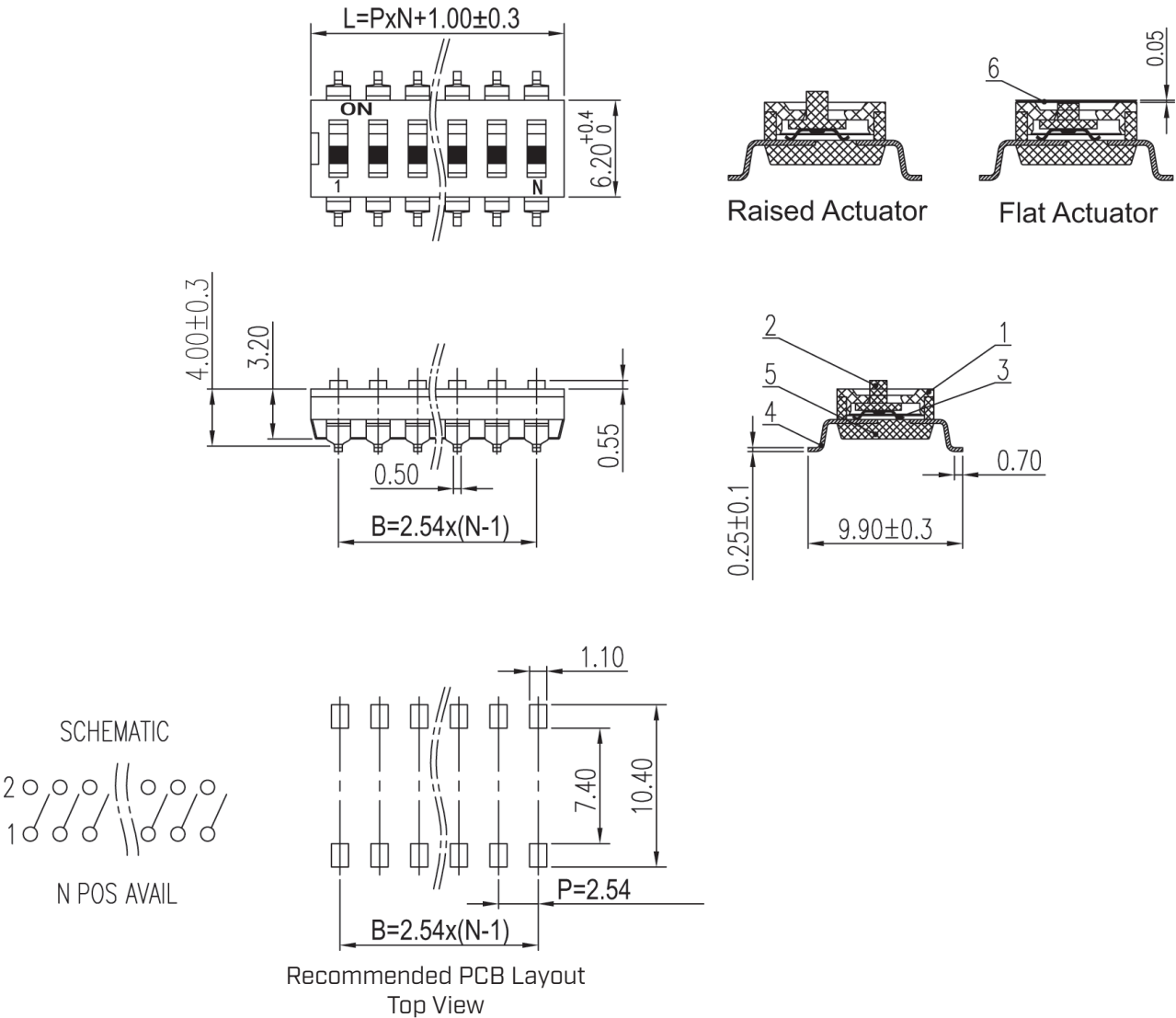
| DS04 - 254 - X - XX BK - SMT - XX |                                     |                                                               |                                                                 |
|-----------------------------------|-------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|
| Base Number                       | Actuator:<br>1 = Raised<br>2 = Flat | No. of Poles:<br>01 07<br>02 08<br>03 10<br>04 12<br>05<br>06 | Packaging:<br>"blank" = Tube<br>TR <sup>1</sup> = Tape and Reel |

Notes: 1. Tape and Reel packaging only available on flat actuator options.

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    | housing     | PBT [UL94V-0] | black         |
| 2    | actuator    | PBT [UL94V-0] | white         |
| 3    | contact     | copper alloy  | gold          |
| 4    | pins 1,2    | copper alloy  | gold          |
| 5    | base        | PBT [UL94V-0] | black         |
| 6    | tape        | polyimide     |               |

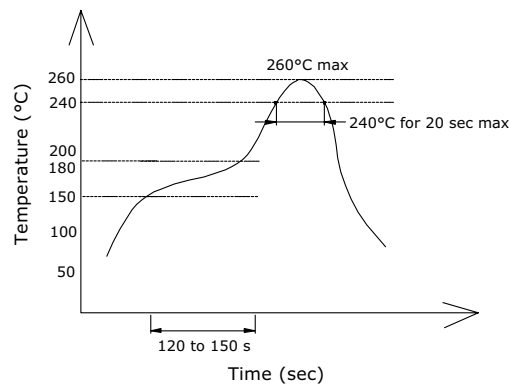


|                                                                                                                               |      |      |      |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 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                                                                                                                             | 01   | 02   | 03   | 04    | 05    | 06    | 07    | 08    | 10    | 12    |
| L                                                                                                                             | 3.54 | 6.08 | 8.62 | 11.16 | 13.70 | 16.24 | 18.78 | 21.32 | 26.40 | 31.48 |
| B                                                                                                                             | --   | 2.54 | 5.08 | 7.62  | 10.16 | 12.70 | 15.24 | 17.78 | 22.86 | 27.94 |

SOLDERABILITY

| parameter                     | conditions/description      | min | typ | max | units |
|-------------------------------|-----------------------------|-----|-----|-----|-------|
| hand soldering <sup>2</sup>   | for maximum 3 seconds       | 315 | 320 | 325 | °C    |
| reflow soldering <sup>2</sup> | 240-260 °C (20 seconds max) |     |     | 260 | °C    |

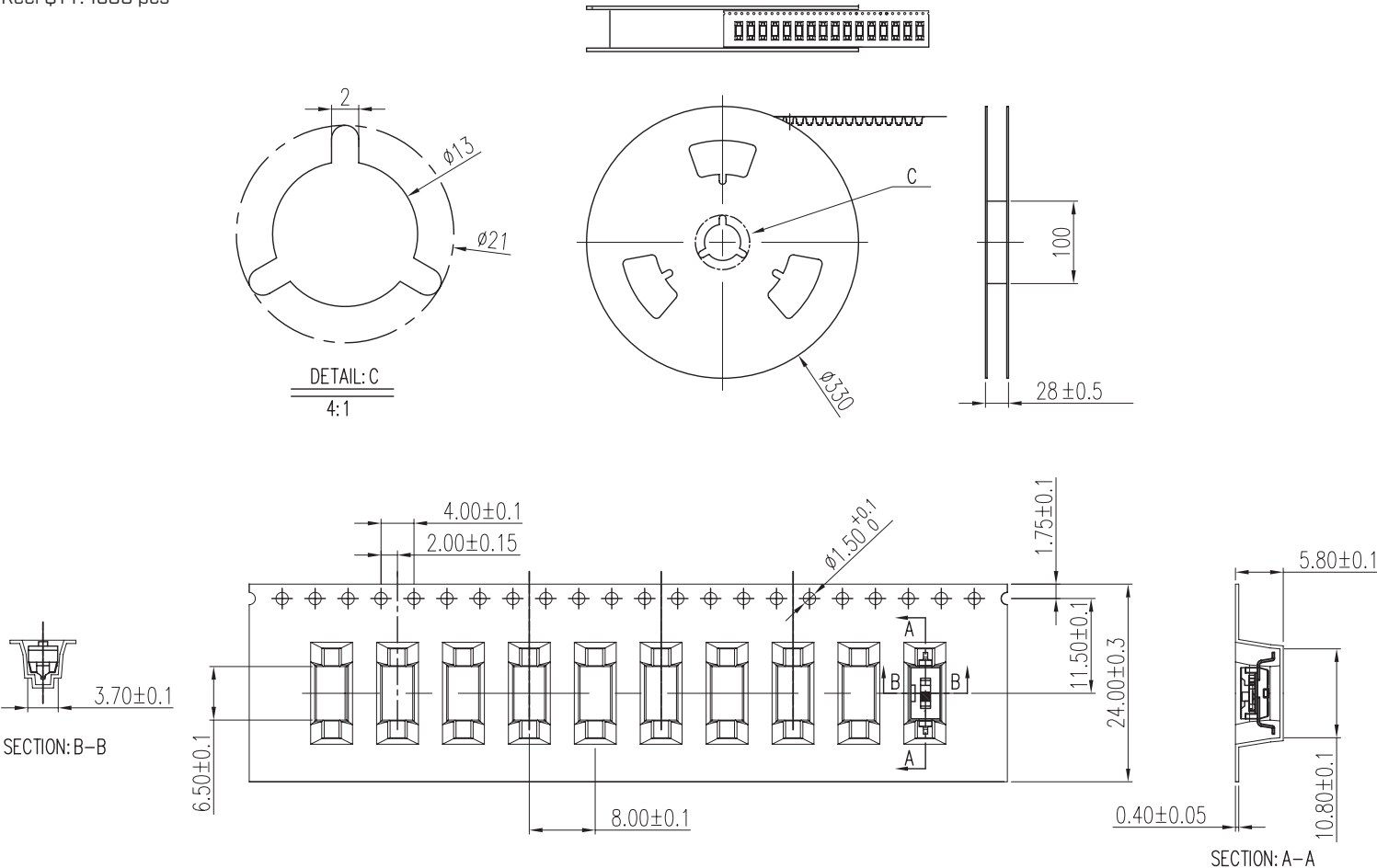
Notes: 2. Keep in "off" position during soldering.



PACKAGING (TAPE & REEL, 1 POLE MODELS)

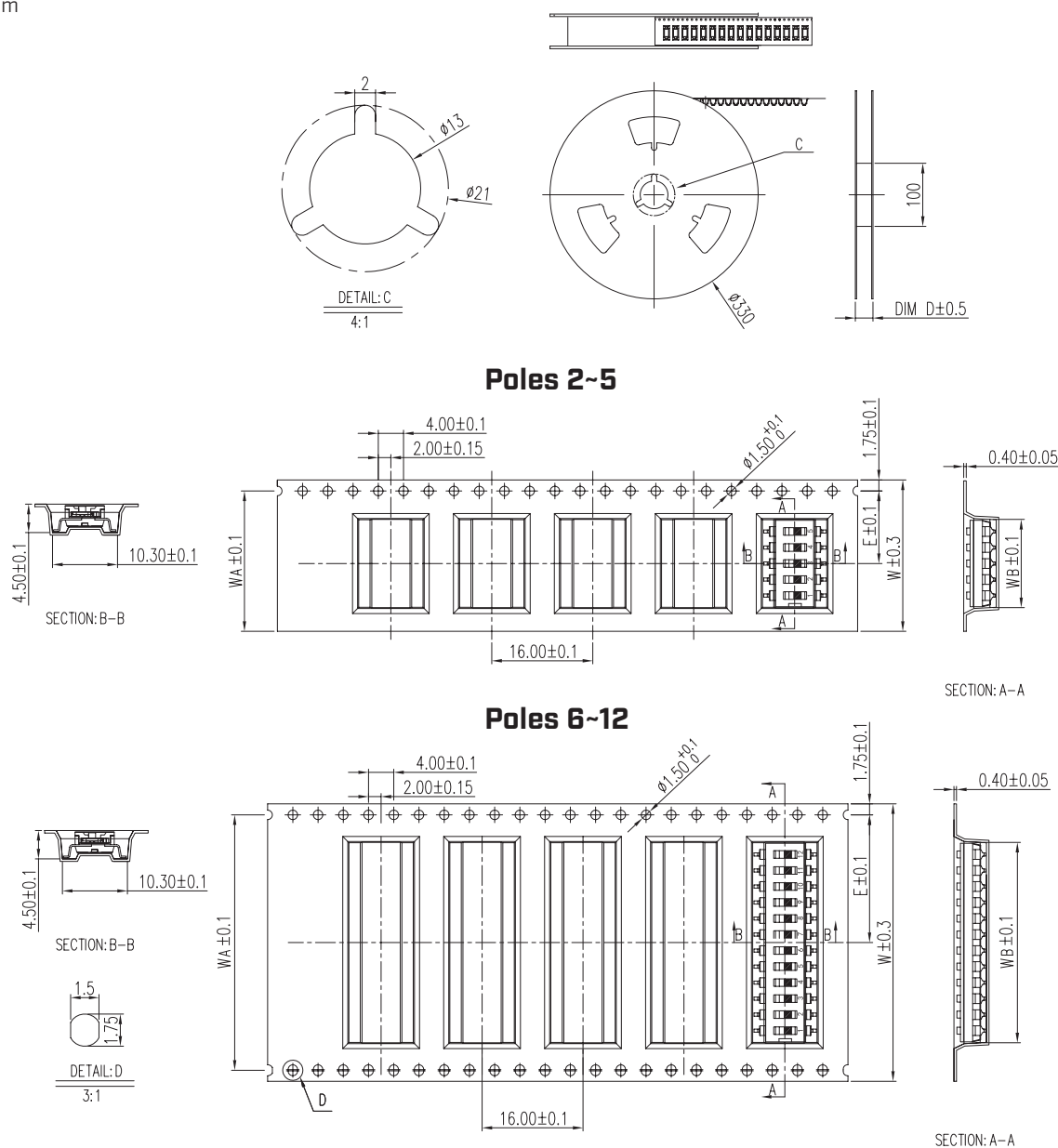
units: mm

Reel Size: Ø330 mm  
Reel QTY: 1500 pcs



## PACKAGING (TAPE & REEL, 2~12 POLE MODELS)

units: mm

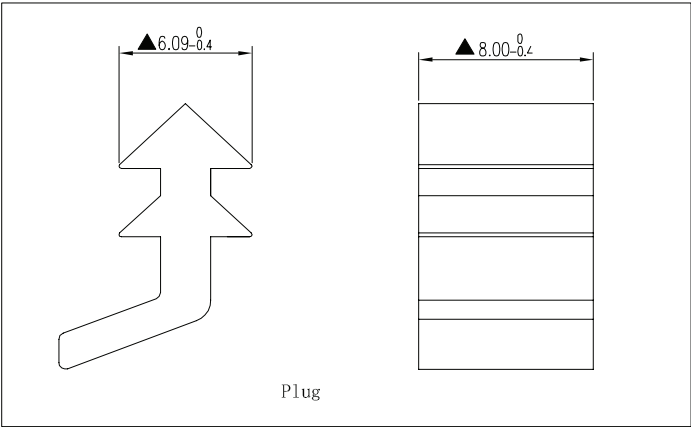
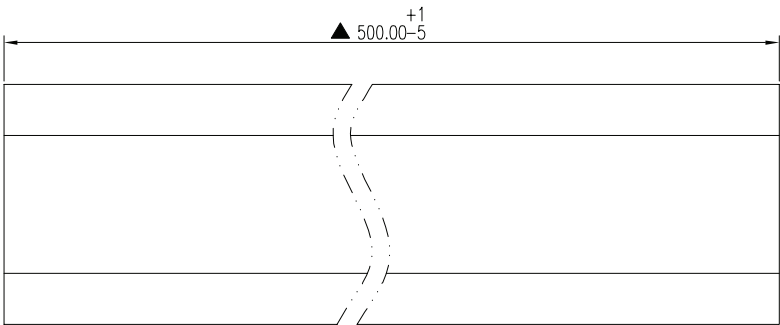
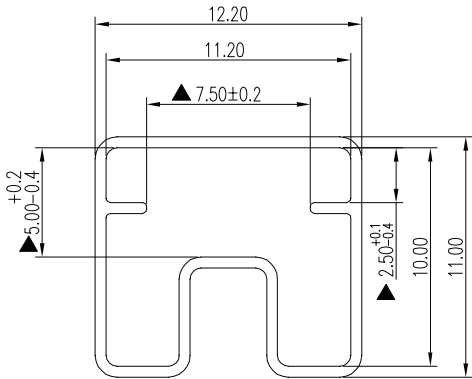
Reel Size:  $\varnothing 330$  mm

| Tape Dimensions |        |         |         |        |        |     |
|-----------------|--------|---------|---------|--------|--------|-----|
| #Poles          | W [mm] | WA [mm] | WB [mm] | E [mm] | D [mm] | QTY |
| 2               | 16.00  | 14.55   | 6.26    | 7.50   | 20     | 800 |
| 3               | 16.00  | 14.55   | 8.92    | 7.50   | 20     | 800 |
| 4               | 24.00  | 22.25   | 11.46   | 11.50  | 28     | 800 |
| 5               | 24.00  | 22.25   | 14.00   | 11.50  | 28     | 800 |
| 6               | 32.00  | 28.50   | 16.54   | 14.20  | 36     | 800 |
| 7               | 32.00  | 28.50   | 19.08   | 14.20  | 36     | 800 |
| 8               | 44.00  | 40.50   | 21.62   | 20.25  | 48     | 800 |
| 10              | 44.00  | 40.50   | 26.70   | 20.25  | 48     | 800 |
| 12              | 44.00  | 40.50   | 31.78   | 20.25  | 48     | 800 |

PACKAGING (TUBE)

units: mm

Tube Size: 12.20 x 11.00 x 500 mm



REVISION HISTORY

| rev. | description                                    | date       |
|------|------------------------------------------------|------------|
| 1.0  | initial release                                | 12/02/2019 |
| 1.01 | added tube packaging details                   | 03/02/2021 |
| 1.02 | changed packaging tape width on 8 pole version | 04/13/2022 |
| 1.03 | logo, datasheet style update                   | 08/05/2022 |
| 1.0  | 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.

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