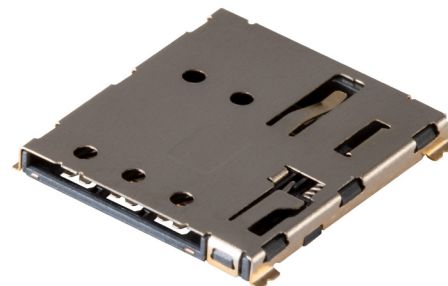


**MODEL:** NSIM-7-A | **DESCRIPTION:** NANO SIM CARD CONNECTOR**FEATURES**

- nano SIM card connector
- push in, auto eject out
- card detect switch
- gold flash
- surface mount
- UL94V-0

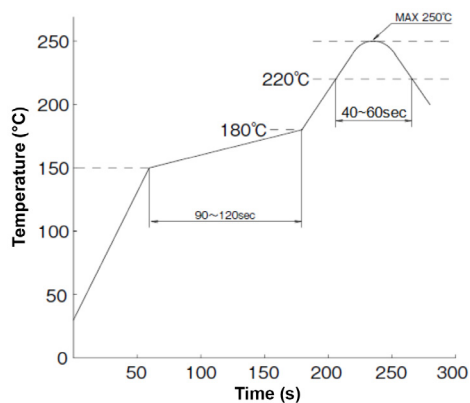
**SPECIFICATIONS**

| parameter                       | conditions/description                  | min   | typ   | max | units  |
|---------------------------------|---|-------|-------|-----|--------|
| rated voltage                   |   |       |       | 30  | V      |
| rated current                   |   |       |       | 0.5 | A      |
| contact resistance <sup>1</sup> |   |       |       | 100 | mΩ     |
| insulation resistance           | at 500 Vdc, between adjacent circuits   | 1,000 |       |     | MΩ     |
| voltage withstand               | for 1 minute, between adjacent circuits |       | 500   |     | Vdc    |
| insertion force                 | at a rate of 25 mm/min                  |       |       | 10  | N      |
| withdrawal force                | at a rate of 25 mm/min                  | 0.5   |       |     | N      |
| life                            |   |       | 5,000 |     | cycles |
| operating temperature           |   | -40   |       | 75  | °C     |
| flammability rating             | UL94V-0                                 |       |       |     |        |
| RoHS                            | yes                                     |       |       |     |        |

Note: 1. When measured at 20 mV / 100 mA.

**SOLDERABILITY**

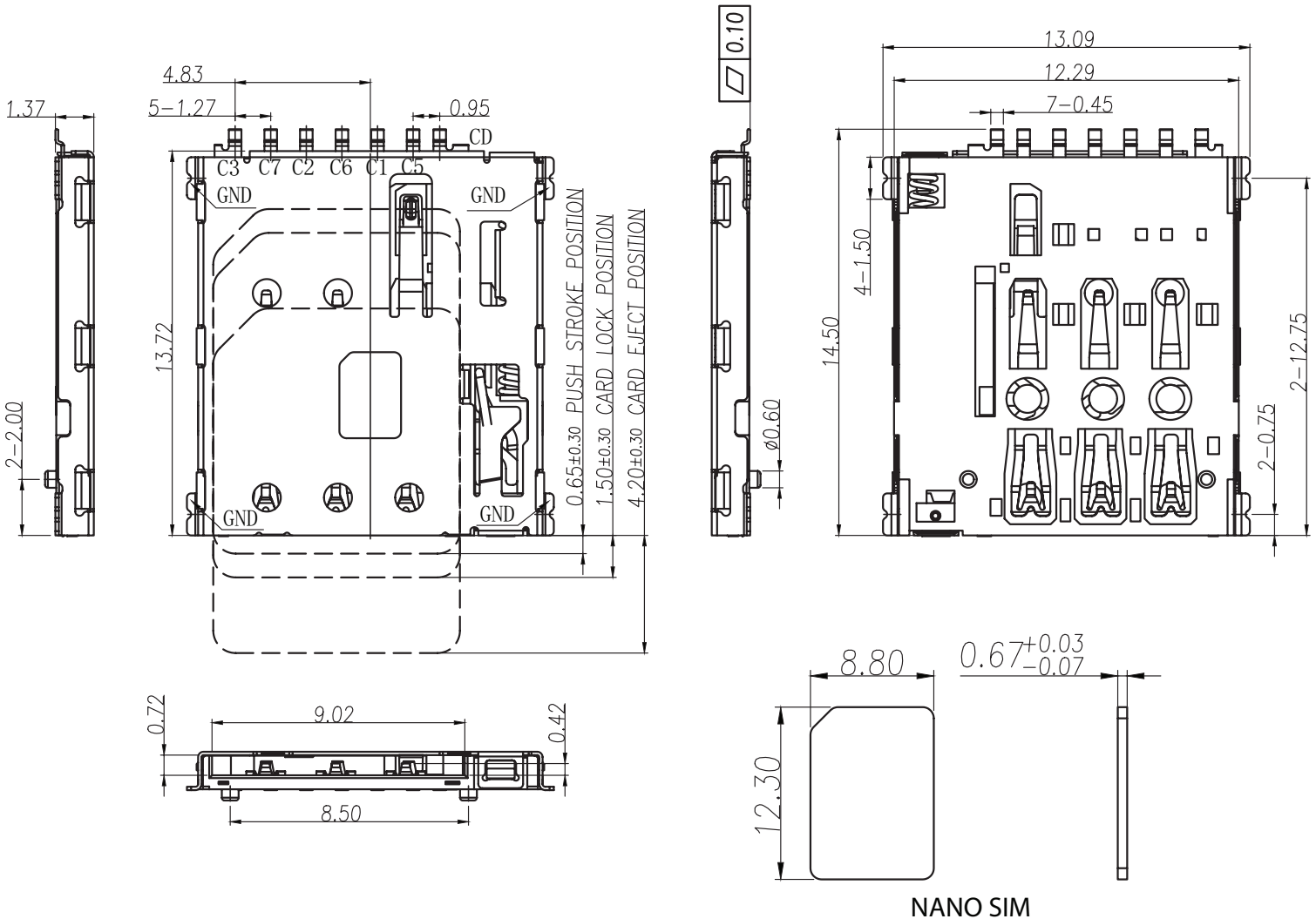
| parameter        | conditions/description   | min | typ | max | units |
|------------------|--|-----|-----|-----|-------|
| reel storage     | at relative humidity 40-70%<br>reel opened: use within 1 month<br>reel unopened: up to 15 month shelf life | 16  | 22  | 28  | °C    |
| reflow soldering | see reflow profile   |     |     | 250 | °C    |



## MECHANICAL DRAWING

units: mm  
 tolerance:  
 X.X ±0.30 mm  
 X.XX ±0.20 mm  
 X.XXX ±0.10 mm  
 unless otherwise specified

| DESCRIPTION       | MATERIAL                     | PLATING/COLOR   |
|-------------------|------------------------------|---|
| housing           | LCP 30% GF<br>(UL94V-0)      | black   |
| contact terminals | phosphor bronze<br>t=0.10 mm | contact area: gold<br>flash over nickel<br>solder area: gold<br>flash over nickel |
| cover             | SUS304 t=0.12 mm             | solder area: gold<br>flash over nickel  |

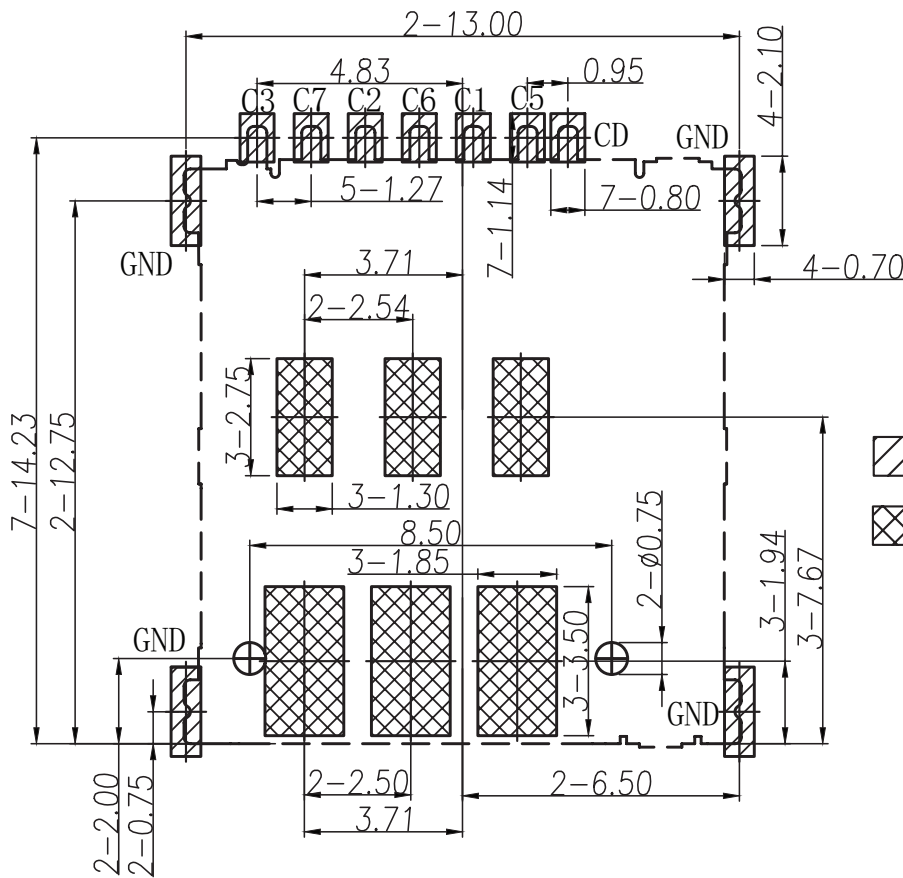
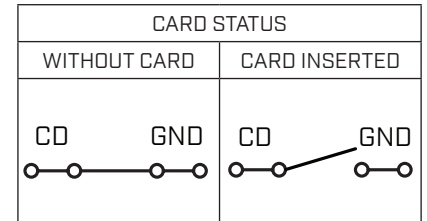


NANO SIM

## MECHANICAL DRAWING (CONTINUED)

units: mm  
PCB tolerance: ±0.05 mm

| PIN CONNECTIONS |             |                     |
|-----------------|-------------|---------------------|
| PIN             | SIGNAL NAME | DESCRIPTION         |
| C1              | VCC         | SUPPLY VOLTAGE      |
| C2              | RST         | RESETTING           |
| C3              | CLK         | CLOCK               |
| C5              | GND         | GROUND CONNECTION   |
| C6              | VPP         | PROGRAMMING VOLTAGE |
| C7              | I/O         | DATA LINE           |
| CD              | -           | CARD DETECT SWITCH  |
| GND             | -           | COVER GROUND        |



- SMT SOLDER AREA
- COPPER RESTRICTED AREA
- 1. TOUCH AREA OF CONTACT TIPS NO ELECTRICAL FUNCTION
- 2. NO FIRST PCB\_LAYOUT CIRCUITS IN THE AREA

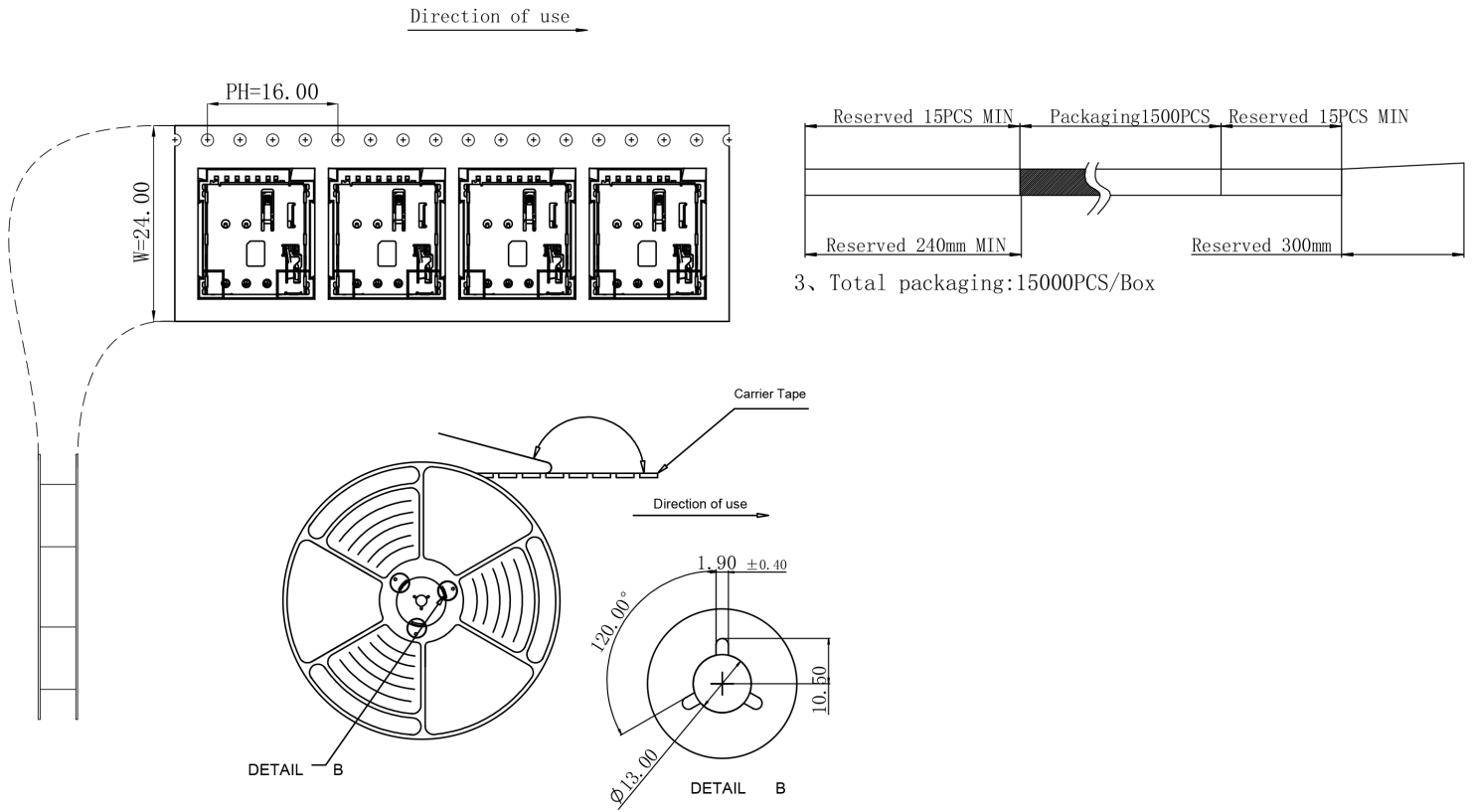
Recommended PCB Layout  
Top View

## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 1,500 pcs per reel



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 10/26/2023 |

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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