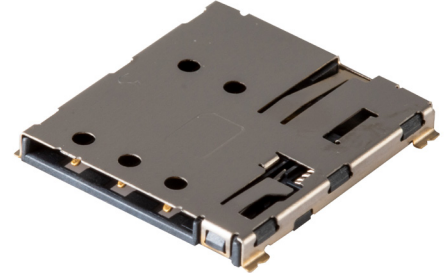


**MODEL:** NSIM-1-A | **DESCRIPTION:** NANO SIM CARD CONNECTOR**FEATURES**

- nano SIM card connector
- push in, auto eject out
- surface mount
- UL94V-0

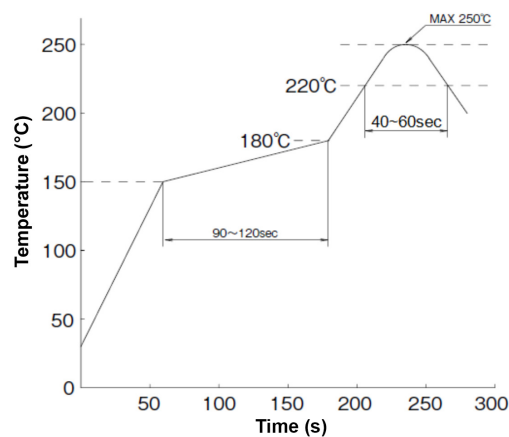
**SPECIFICATIONS**

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**

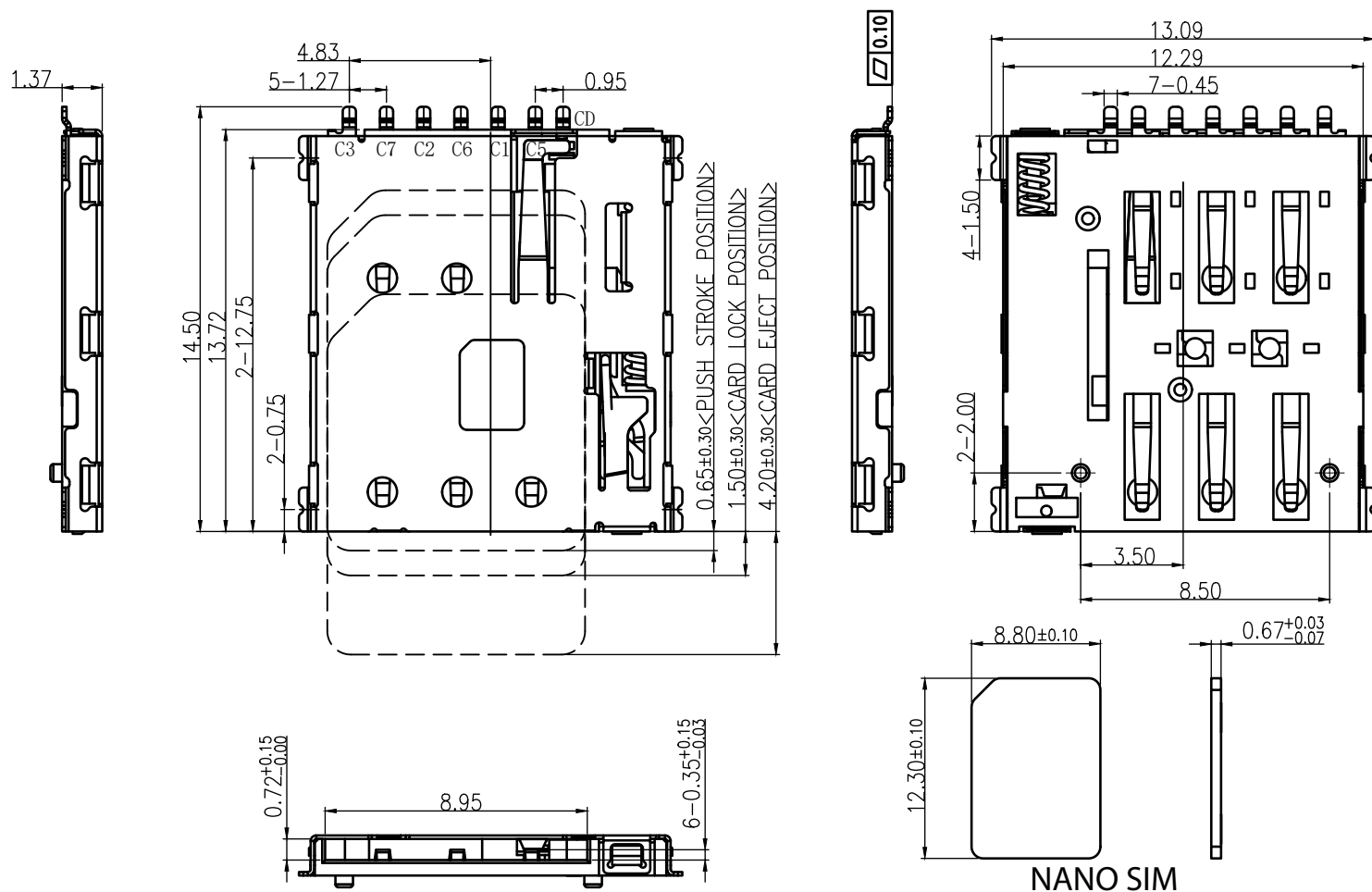
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity 40~70% reel opened: use within 1 month reel unopened: up to 15 month shelf life	16	22	28	°C
reflow soldering	see reflow profile			250	°C



## MECHANICAL DRAWING

units: mm  
tolerance:  
X.X  $\pm 0.30$  mm  
X.XX  $\pm 0.20$  mm  
X.XXX  $\pm 0.10$  mm  
unless otherwise specified

DESCRIPTION	MATERIAL	PLATING/COLOR
housing	LCP [UL94V-0]	black
contact terminals	phosphor bronze t=0.15 mm	contact area: gold flash over nickel solder area: gold flash over nickel
cover	SUS304 t=0.12 mm	solder area: gold flash over nickel



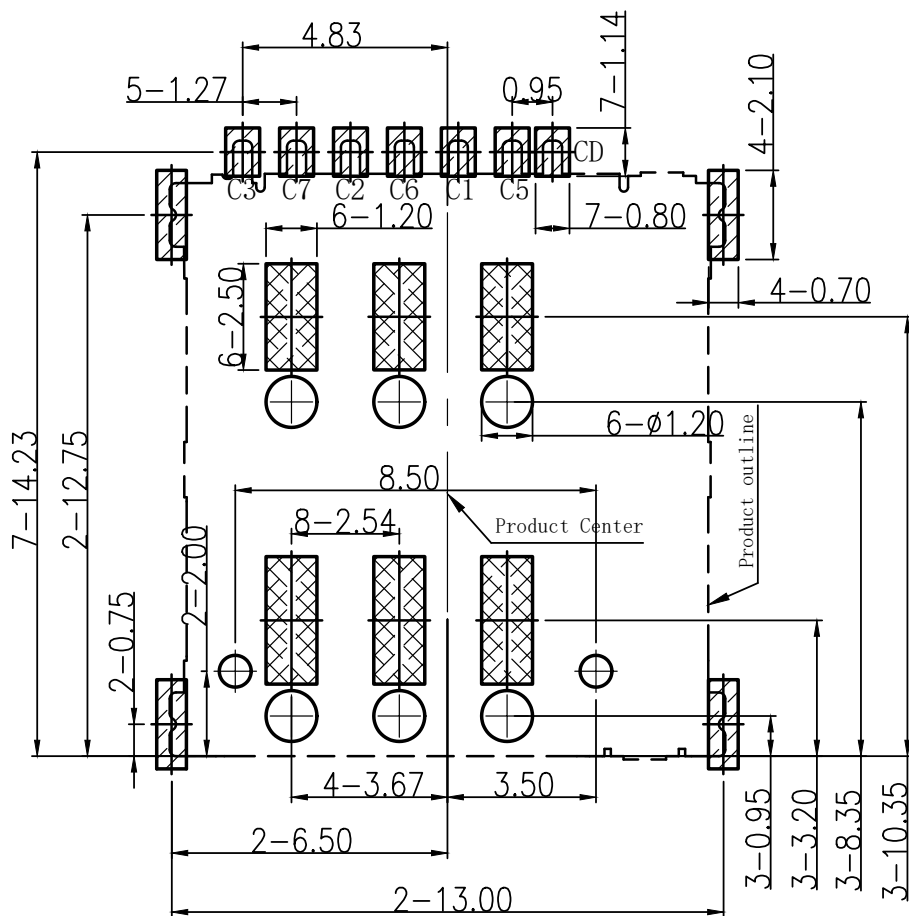
## MECHANICAL DRAWING (CONTINUED)

units: mm



PCB tolerance:  $\pm 0.05$  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

CARD STATUS	
WITHOUT CARD	CARD INSERTED



### Recommended PCB Layout Top View

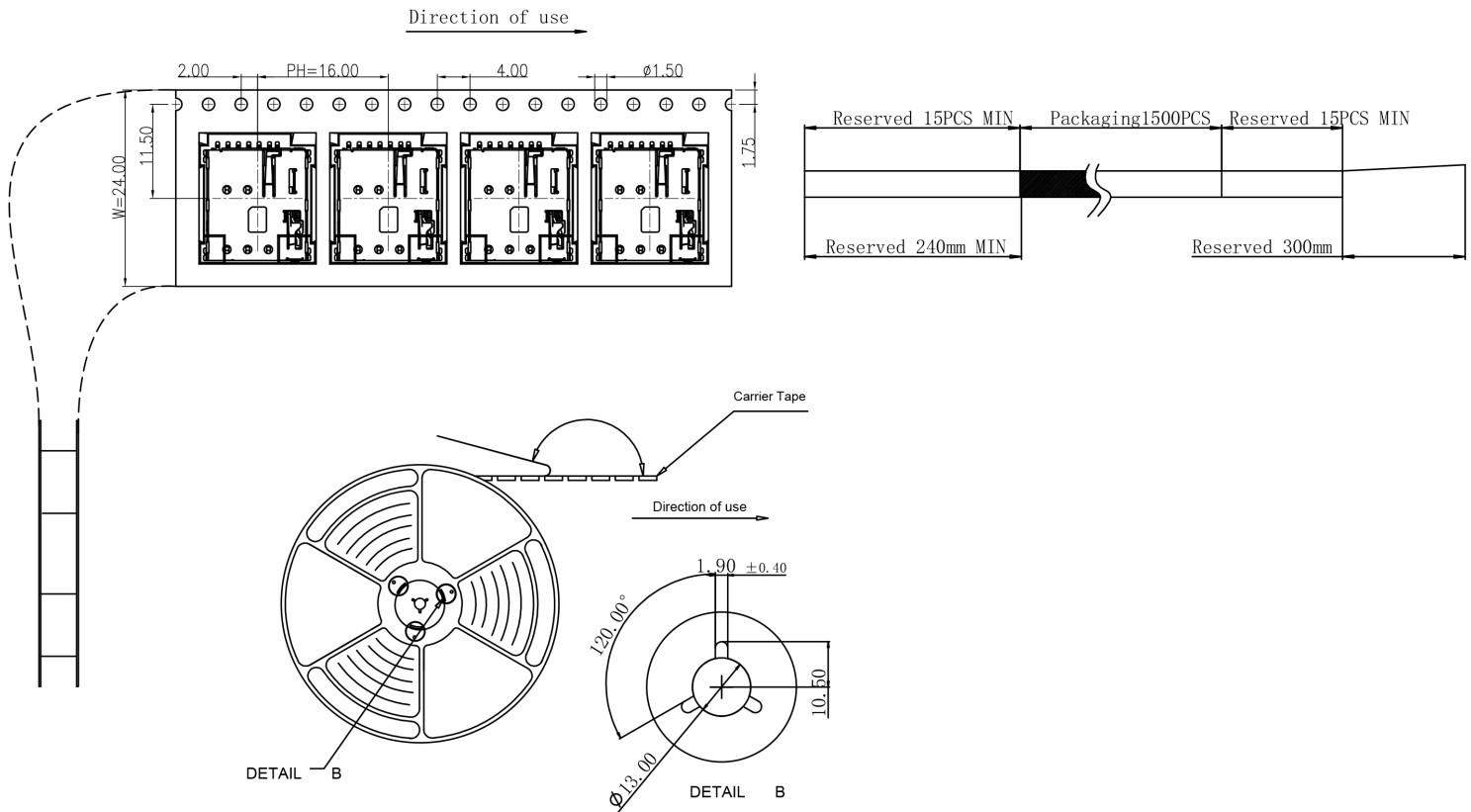
- |   |                             |
|---|-----------------------------|
|  | SMT SOLDER AREA             |
|  | COPPER RESTRICTED AREA      |
|   | 1. TOUCH AREA OF CONTACT    |
|   | TIPS NO ELECTRICAL FUNCTION |
|   | 2. NO FIRST PCB_LAYOUT      |
|   | CIRCUITS IN THE AREA        |

## PACKAGING

units: mm

Reel Size: Ø330 mm

Reel QTY: 1,500 pcs per reel



## REVISION HISTORY

rev.	description	date
1.0	initial release	10/25/2023

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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