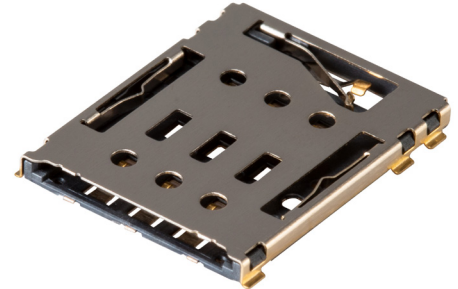


**MODEL:** NSIM-8-B | **DESCRIPTION:** NANO SIM CARD CONNECTOR**FEATURES**

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

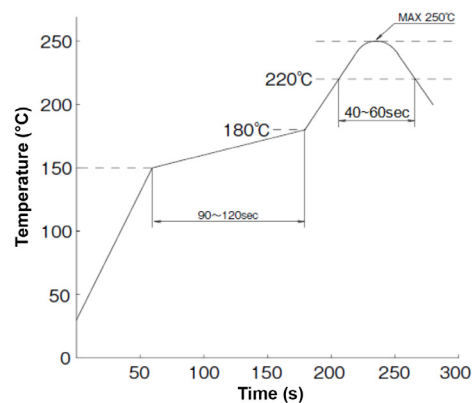
**SPECIFICATIONS**

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**

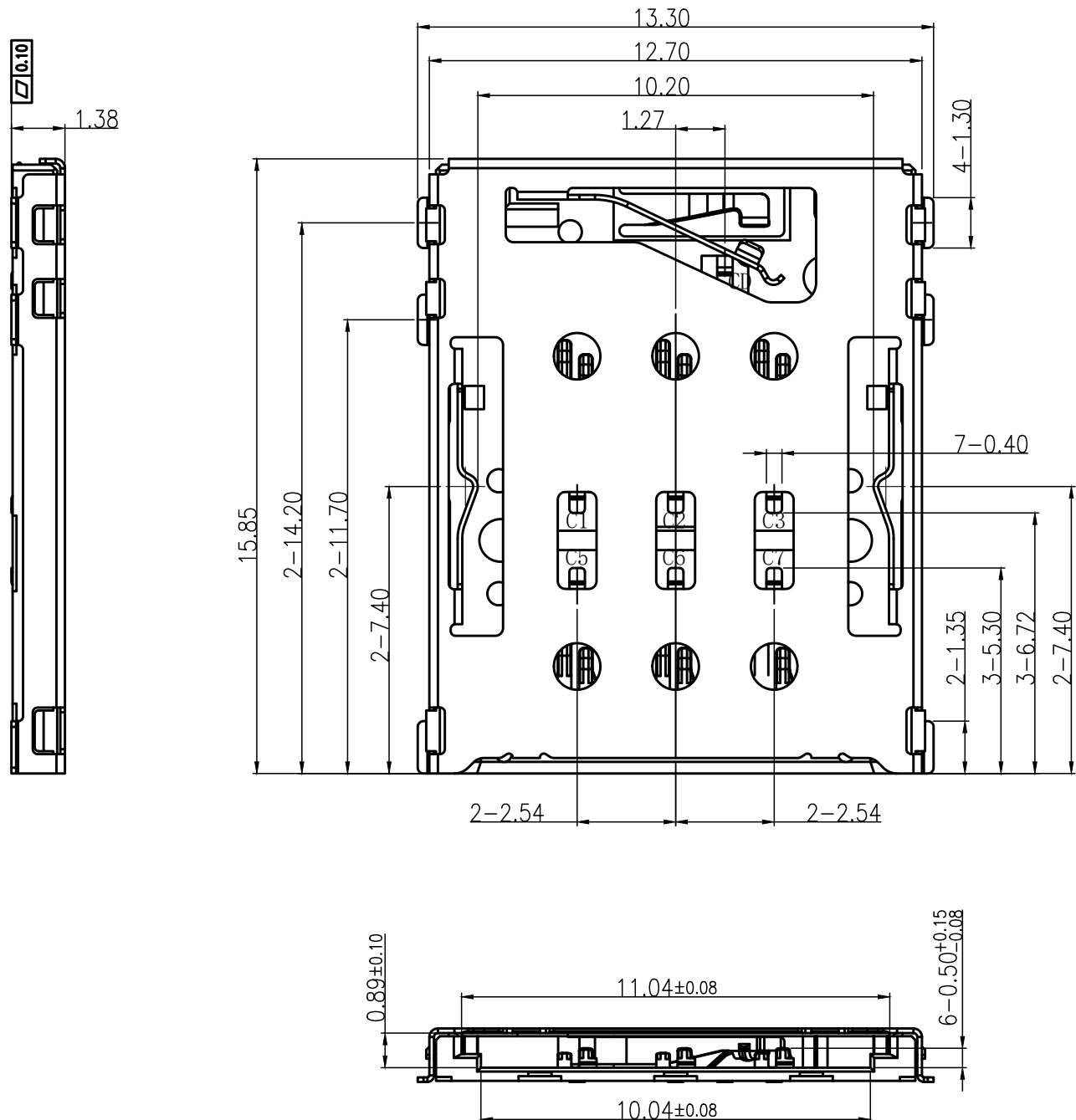
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity 40~70% reel opened: use within 1 month reel unopened: up to 15 month shelf life	16	22	28	°C
reflow soldering	see reflow profile			250	°C



## 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 $t=0.10$ 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

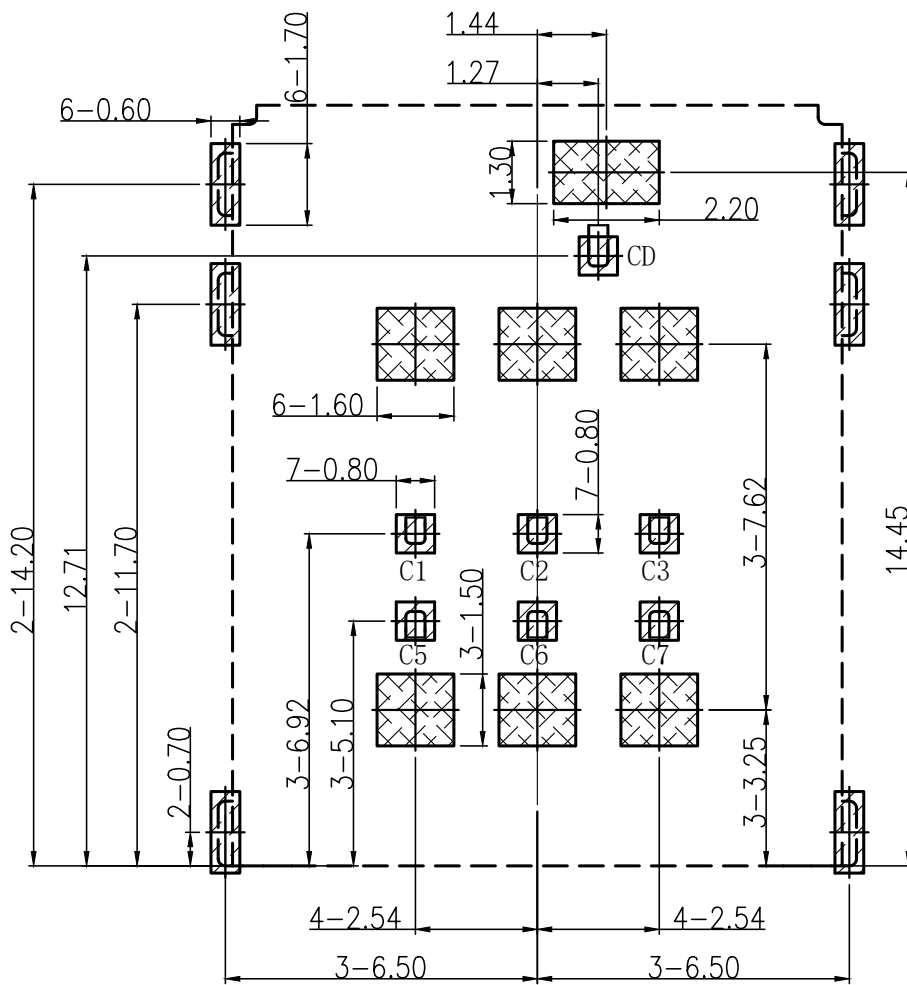




## MECHANICAL DRAWING (CONTINUED)

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
C0	-	CARD DETECT SWITCH
GND	-	COVER GROUND

CARD STATUS	
WITHOUT CARD	CARD INSERTED



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

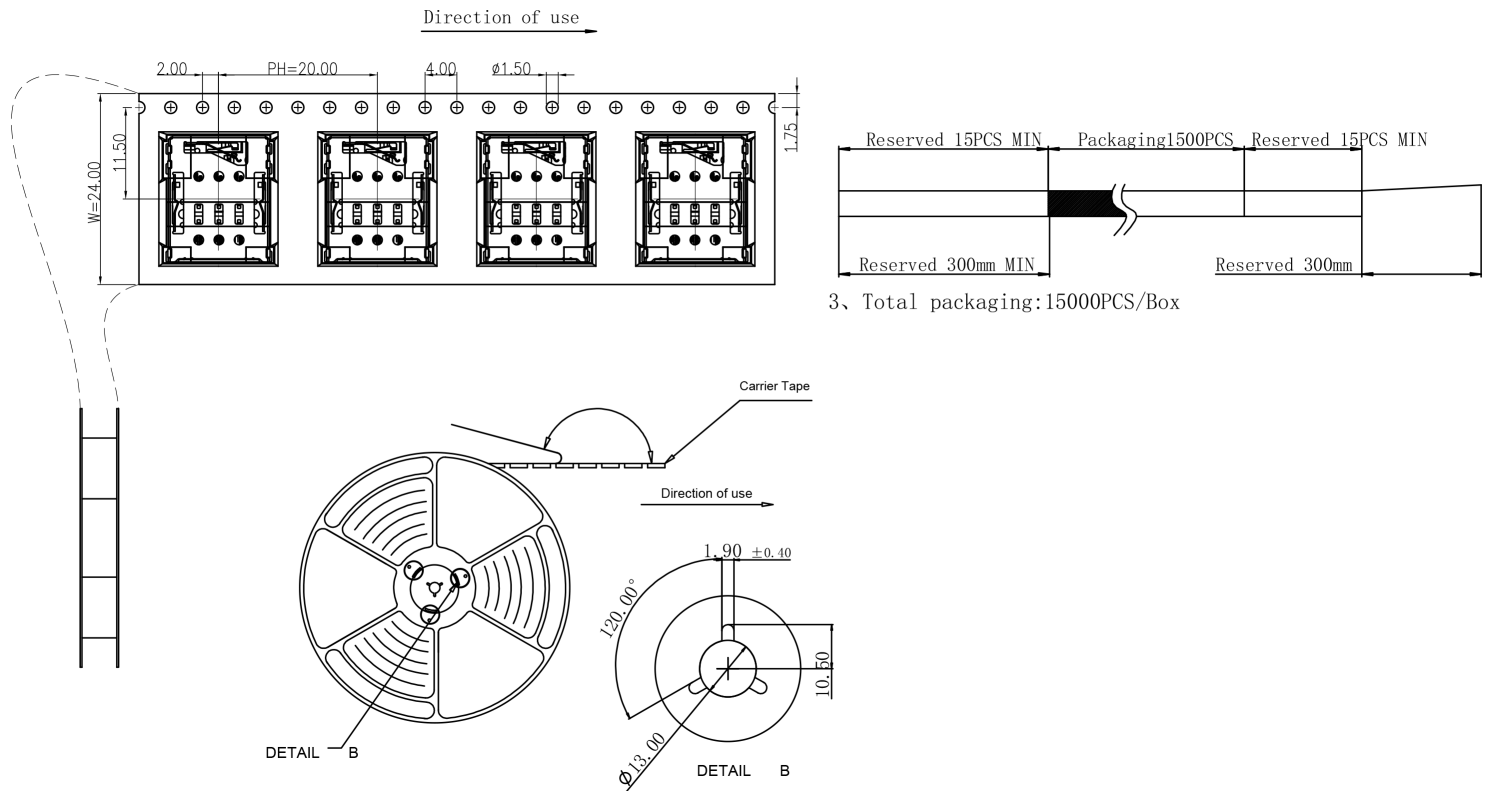
Recommended PCB Layout  
Top View

## PACKAGING

units: mm

Reel Size: Ø330 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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