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MODEL: NSIM-20-A | DESCRIPTION: NANO SIM CARD CONNECTOR

FEATURES

- nano SIM card connector
- 7 pin
- push in, auto eject out
- surface mount
- 1.52 mm profile

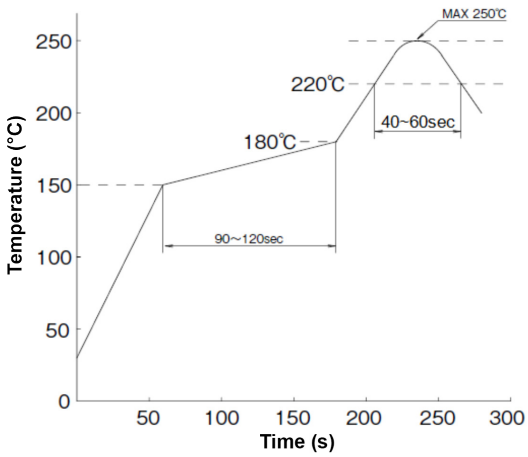
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage				5	V
rated current				0.5	A
contact resistance[1]				50	mΩ
insulation resistance	at 500 Vdc, between adjacent circuits	1,000			MΩ
voltage withstand	for 1 minute, between adjacent circuits		500		Vdc
insertion force				40	N
withdrawal force		1		8	N
life			5,000		cycles
operating temperature		-40		85	°C
flammability rating	UL94V-0				
RoHS	yes				

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

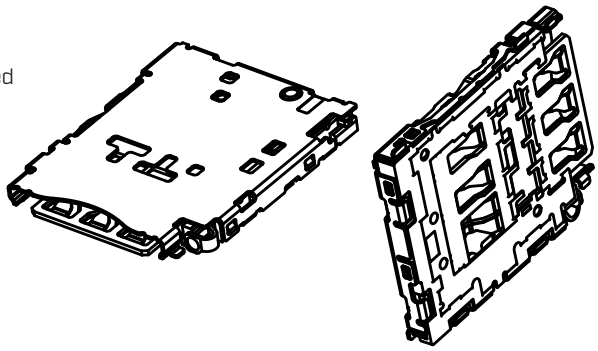
SOLDERABILITY

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

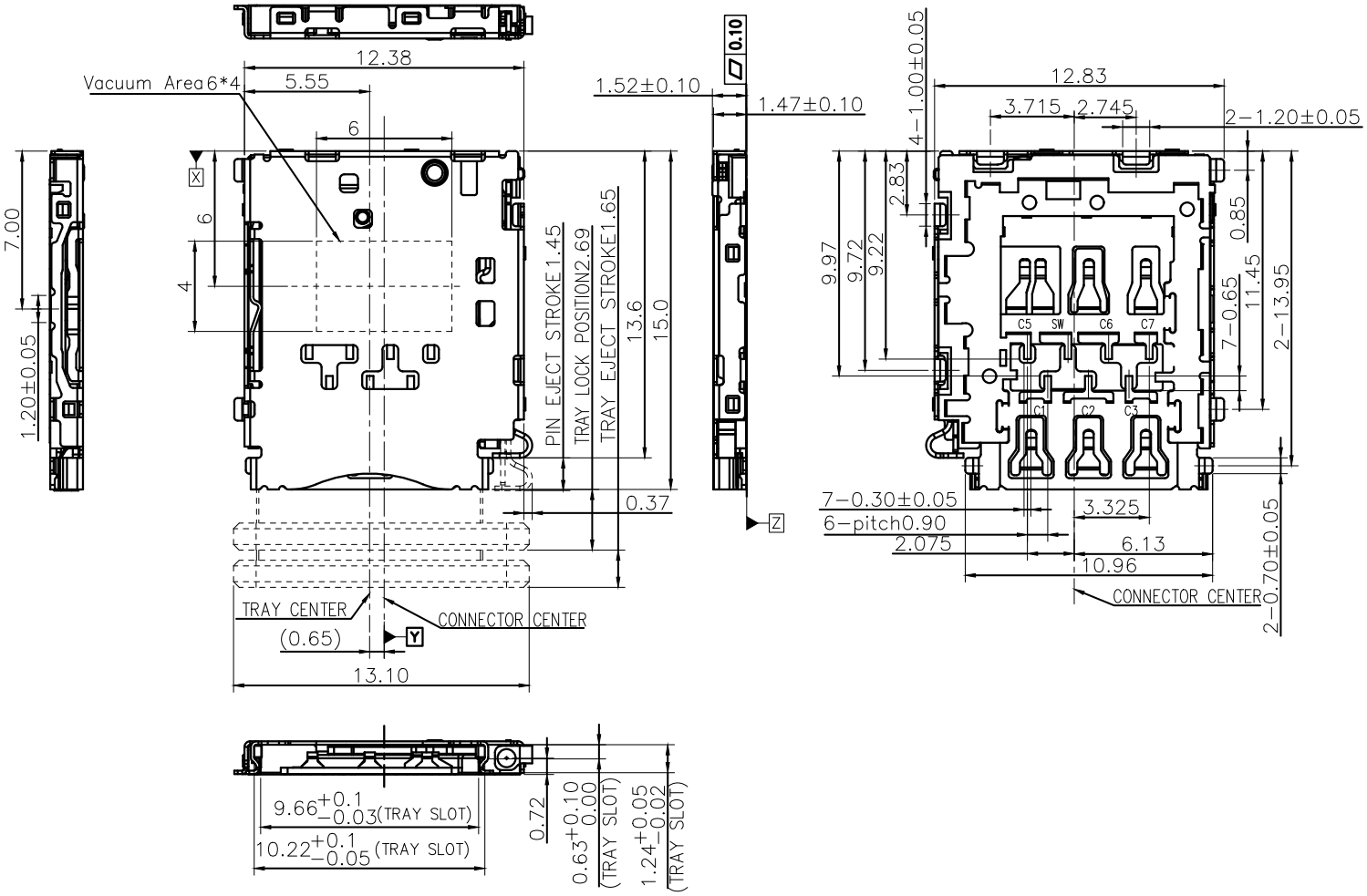


MECHANICAL DRAWING

units: mm
tolerance:
X.X ±0.35 mm
X.XX ±0.25 mm
X.XXX ±0.10 mm
unless otherwise specified



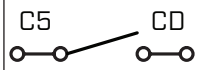
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	LCP (UL94V-0)	black
contact terminals	phosphor bronze t=0.08 mm	contact area: 1 µ" gold over 50 µ" nickel solder area: 0.8 µ" gold over 50 µ" nickel
shell	SUS304 t=0.15 mm	solder area: 0.8 µ" gold over 50 µ" nickel

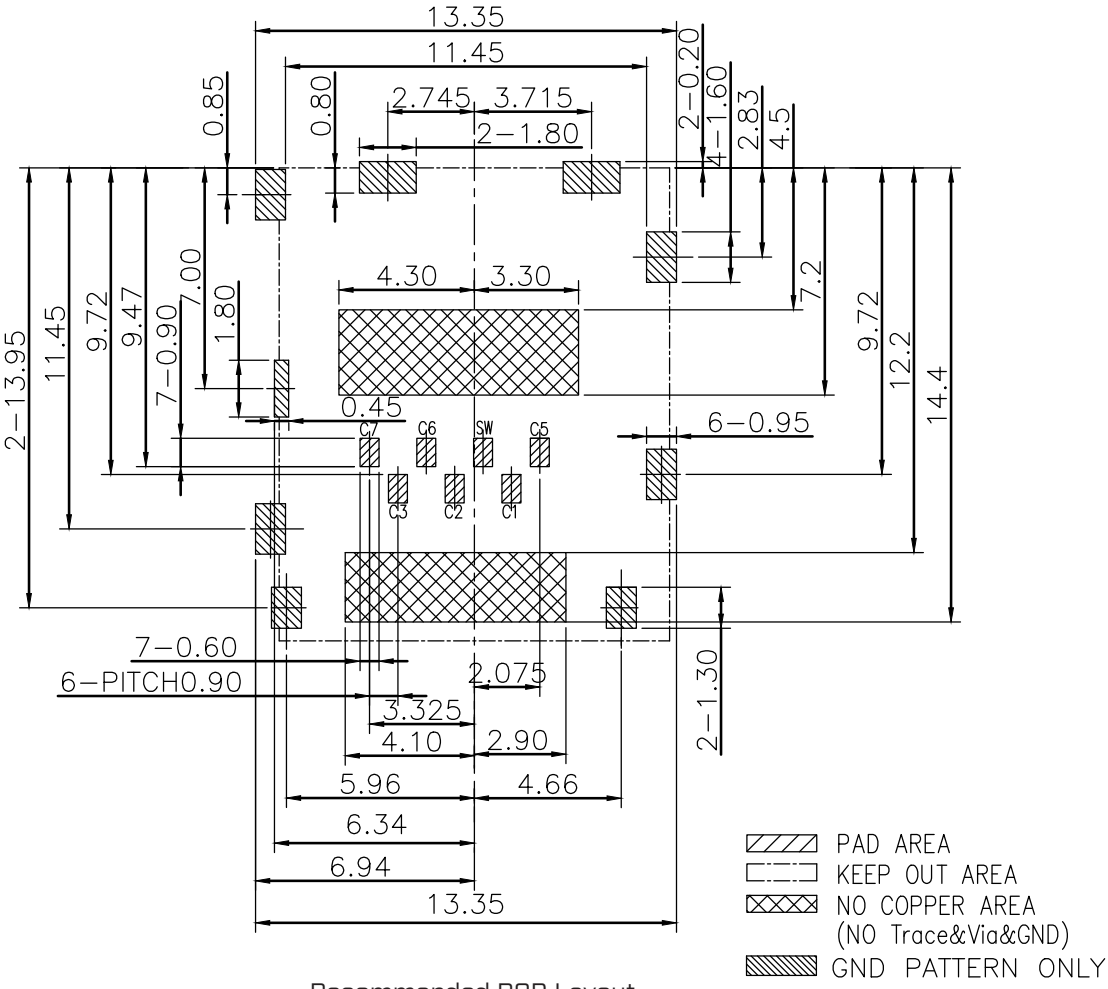


MECHANICAL DRAWING (CONTINUED)

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
CD	-	CARD DETECT SWITCH
C6	VPP	PROGRAMMING VOLTAGE
C7	I/O	DATA LINE

CARD STATUS	
WITHOUT CARD	CARD INSERTED
	

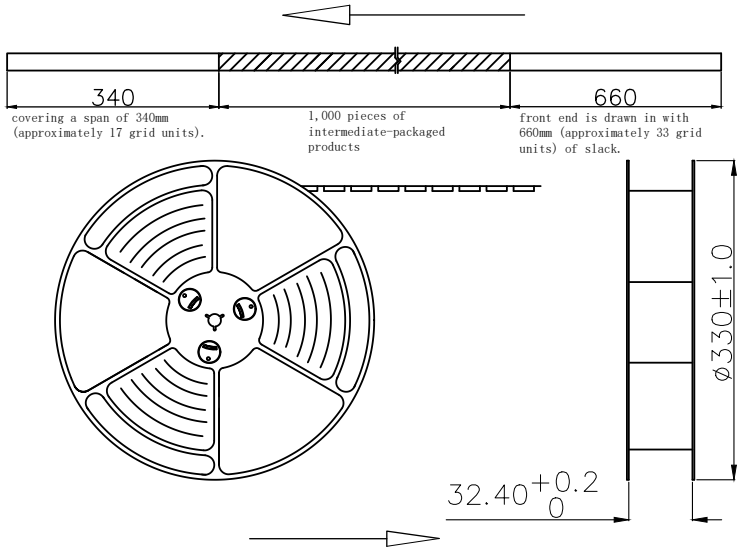


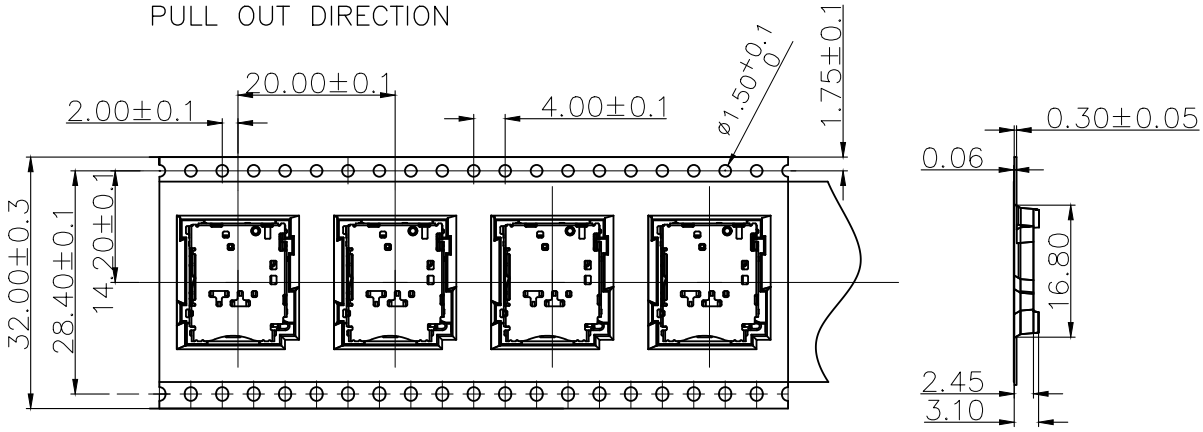
Recommended PCB Layout
Top View

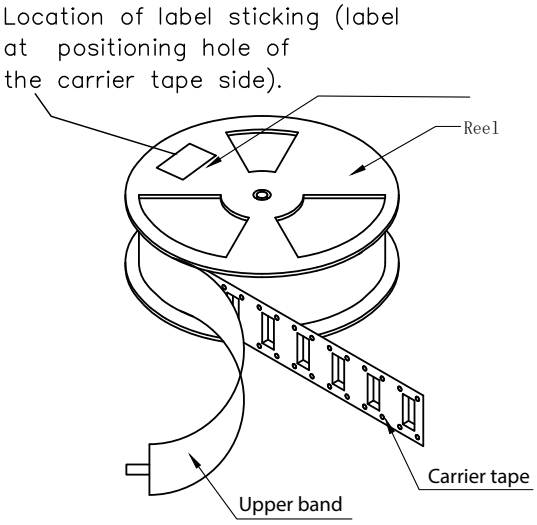
PACKAGING

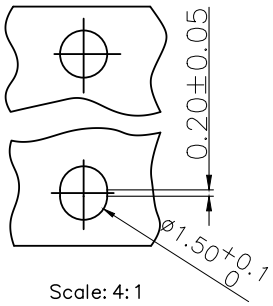
units: mm

Reel Size: Ø330 mm
Reel QTY: 1,000 pcs per reel









REVISION HISTORY

rev.	description	date
1.0	initial release	10/14/2026

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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