same sky

Additional Resources: Product Page | 3D Model | PCB Footprint

**date** 09/12/2024

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

### **FEATURES**

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





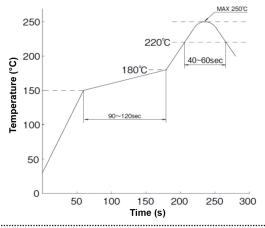
### **SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated voltage				30	V
rated current				0.5	А
contact resistance <sup>1</sup>				100	mΩ
insulation resistance	at 500 Vdc, between adjacent circuits	1,000			МΩ
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**

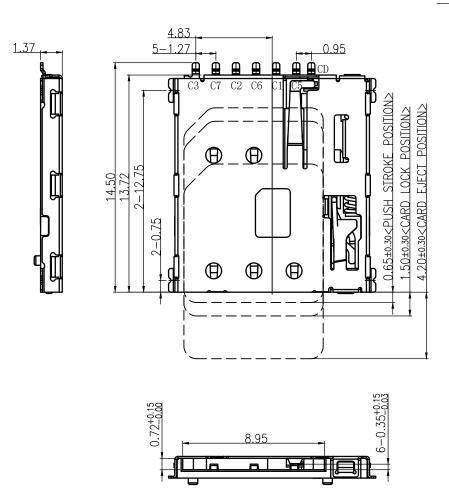
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity 40~70% reel opened: use within 1 month reel unopened: up to 15 month shelf life	16	22	28	°C
reflow soldering	see reflow profile			250	°C

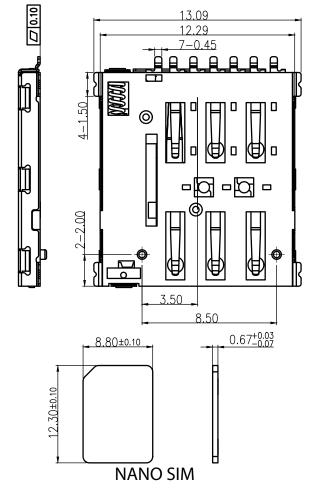


# **MECHANICAL DRAWING**

units: mm tolerance: X.X ±0.30 mm X.XX ±0.20 mm X.XXX ±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	





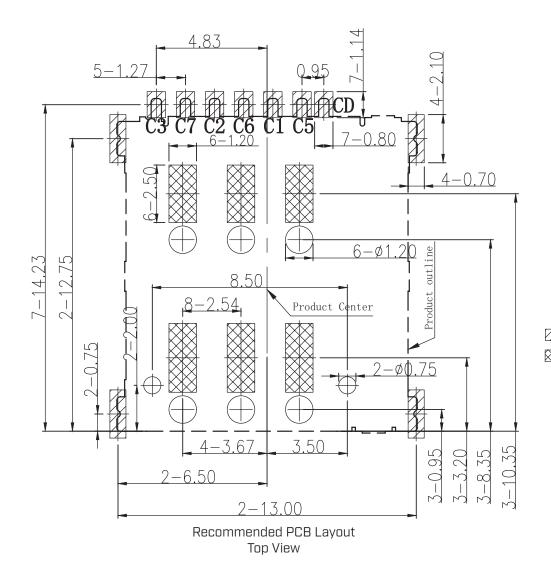
# **MECHANICAL DRAWING (CONTINUED)**

units: mm

PCB tolerance: ±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	1/0	DATA LINE	
CD	-	CARD DETECT SWITCH	
GND	-	COVER GROUND	

CARD STATUS				
WITHOUT CARD		CARD INSERTED		
CD •••	GND —••	CD	GND	



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

# Direction of use Reserved 15PCS MIN Packaging 1500PCS Reserved 15PCS MIN Reserved 240mm MIN Reserved 300mm Reserved 240mm MIN Reserved 300mm

DETAIL

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### **REVISION HISTORY**

rev.	description	date	
1.0	initial release	10/25/2023	
1.01	added dimensions to PCB layout	06/11/2024	
1.02	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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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.