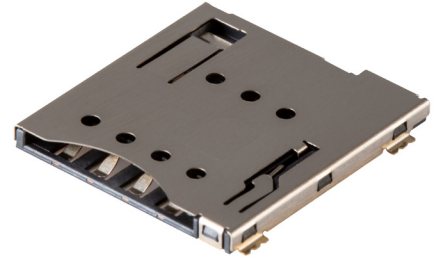


**MODEL:** MSIM-12-A | **DESCRIPTION:** MICRO SIM CARD CONNECTOR**FEATURES**

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

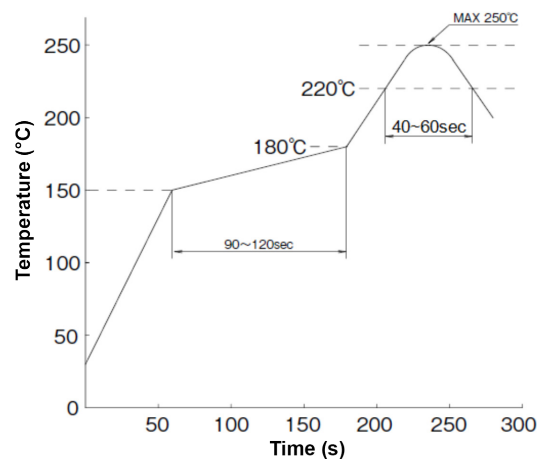
**SPECIFICATIONS**

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		100		Vac
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		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:

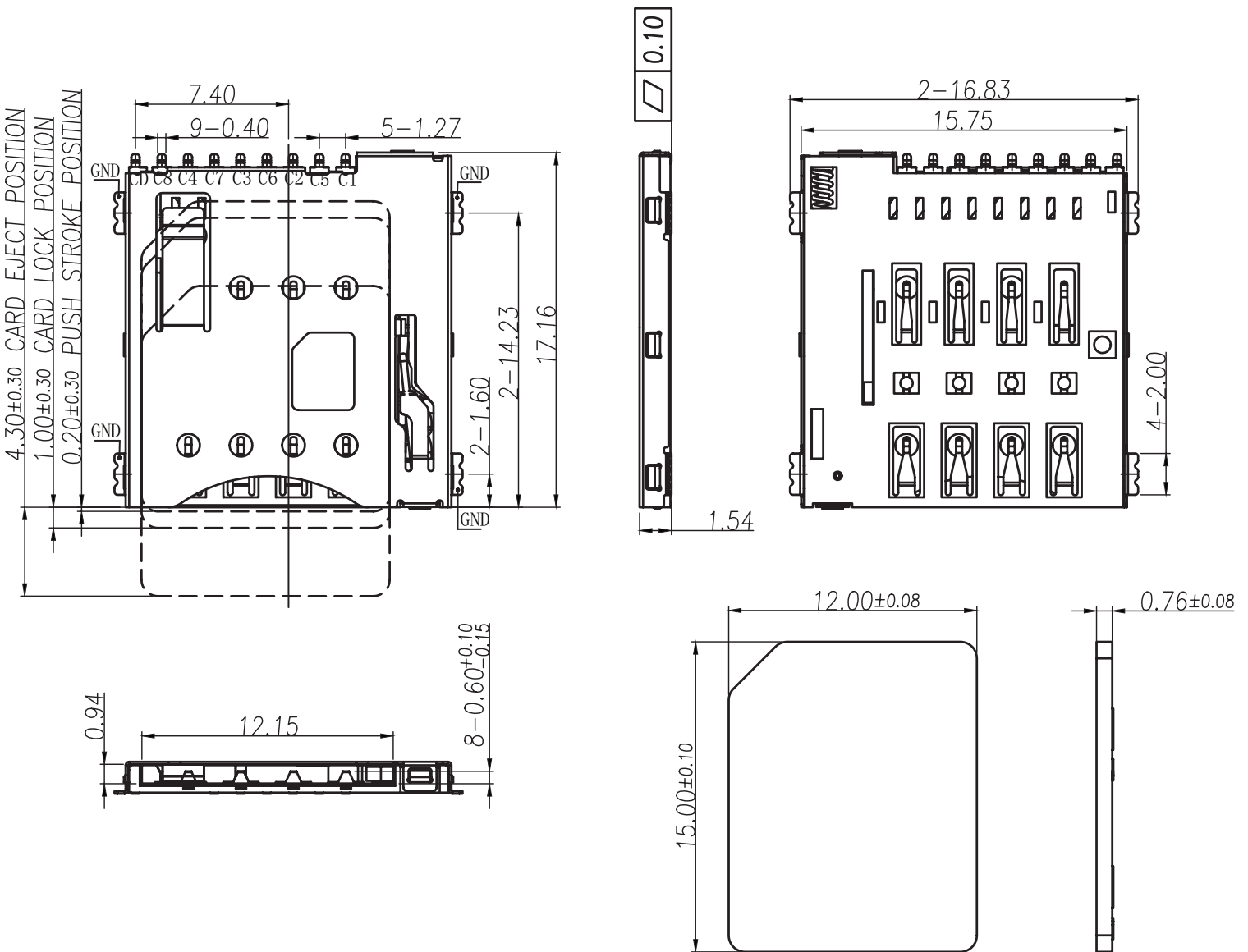
X.X ±0.30 mm

X.XX ±0.20 mm

X.XXX ±0.10 mm

unless otherwise specified

DESCRIPTION	MATERIAL	PLATING/COLOR
housing	LCP 30% GF [UL94V-0]	black
contact terminals	phosphor bronze t=0.12 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



MICRO SIM

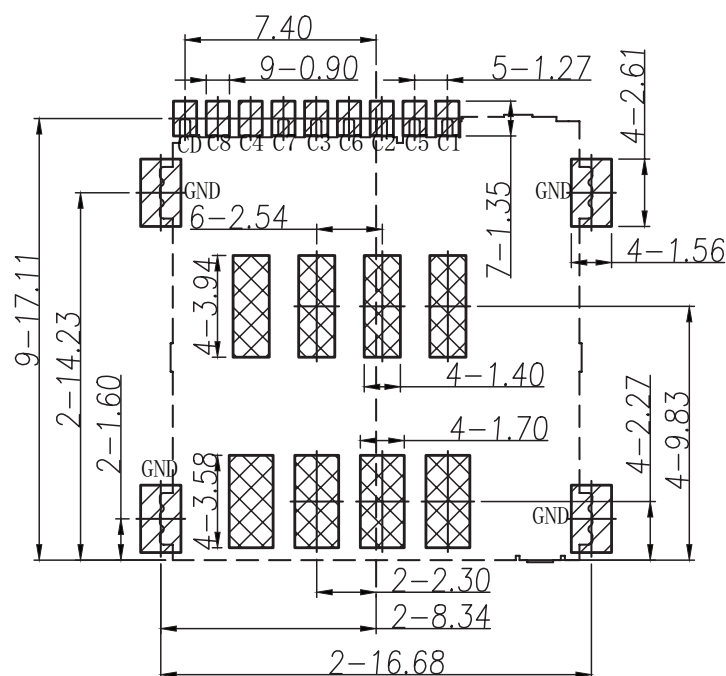
## MECHANICAL DRAWING (CONTINUED)

units: mm

PCB tolerance:  $\pm 0.05$  mm

PIN CONNECTIONS		
PIN	SIGNAL NAME	DESCRIPTION
C1	VCC	SUPPLY VOLTAGE
C2	RST	RESETTING
C3	CLK	CLOCK
C4	-	RESERVED
C5	GND	GROUND CONNECTION
C6	VPP	PROGRAMMING VOLTAGE
C7	I/O	DATA LINE
C8	-	RESERVED
CD	-	CARD DETECT SWITCH
GND	-	COVER GROUND

CARD STATUS	
WITHOUT CARD	CARD INSERTED



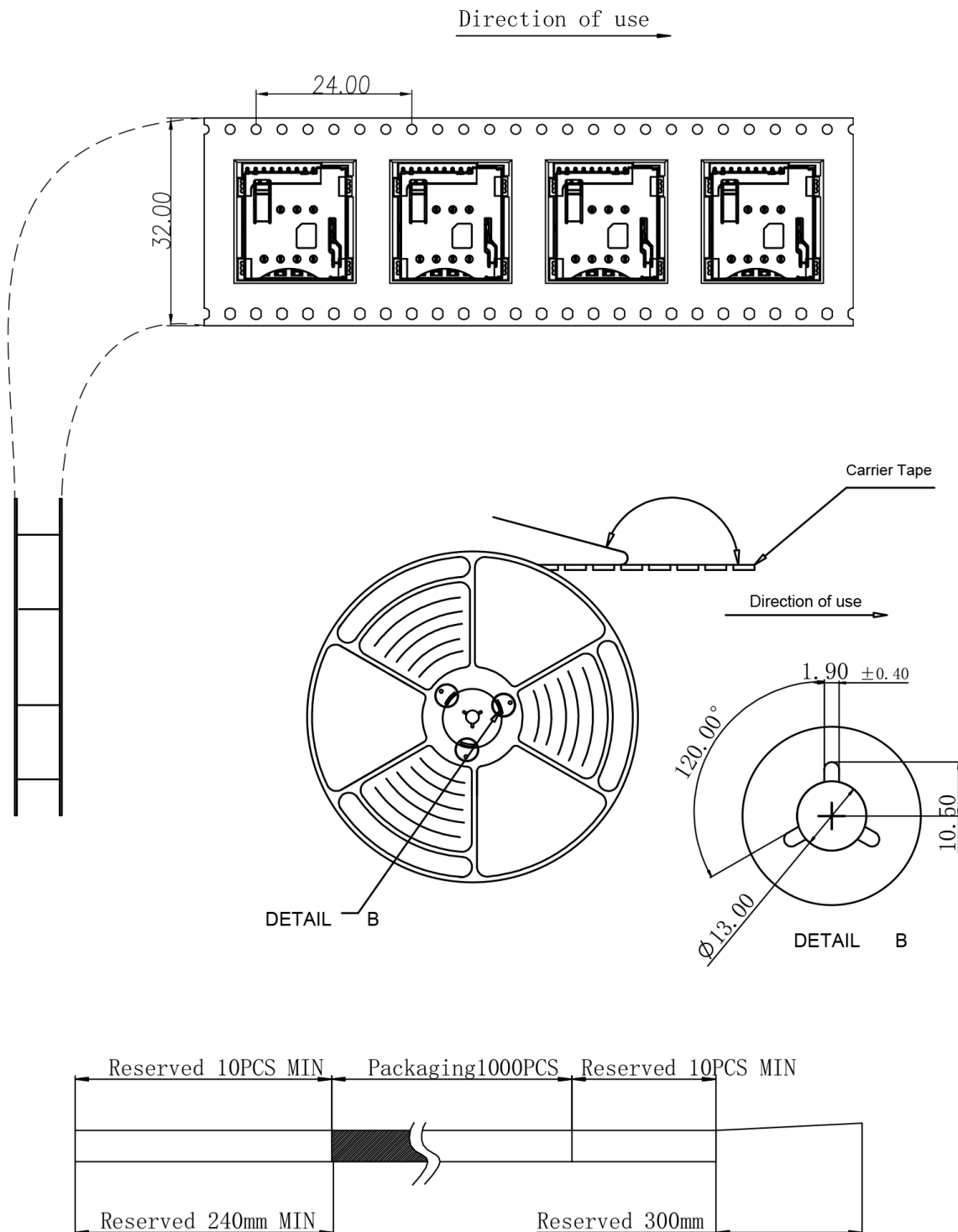
- SMT SOLDER AREA  
 COPPER RESTRICTED AREA  
 1. TOUCH AREA OF CONTACT TIPS NO ELECTRICAL FUNCTION  
 2. NO FIRST PCB\_LAYOUT CIRCUITS IN THE AREA  
 Recommended PCB Layout  
 Top View

## PACKAGING

units: mm

Reel Size: Ø330 mm

Reel QTY: 1,000 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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