

MODEL: SD-2-A | **DESCRIPTION:** SD CARD CONNECTOR**FEATURES**

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

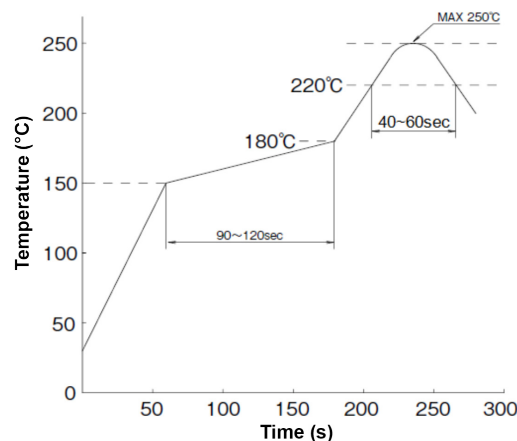
**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated voltage				30	V
rated current				0.5	A
contact resistance ¹				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



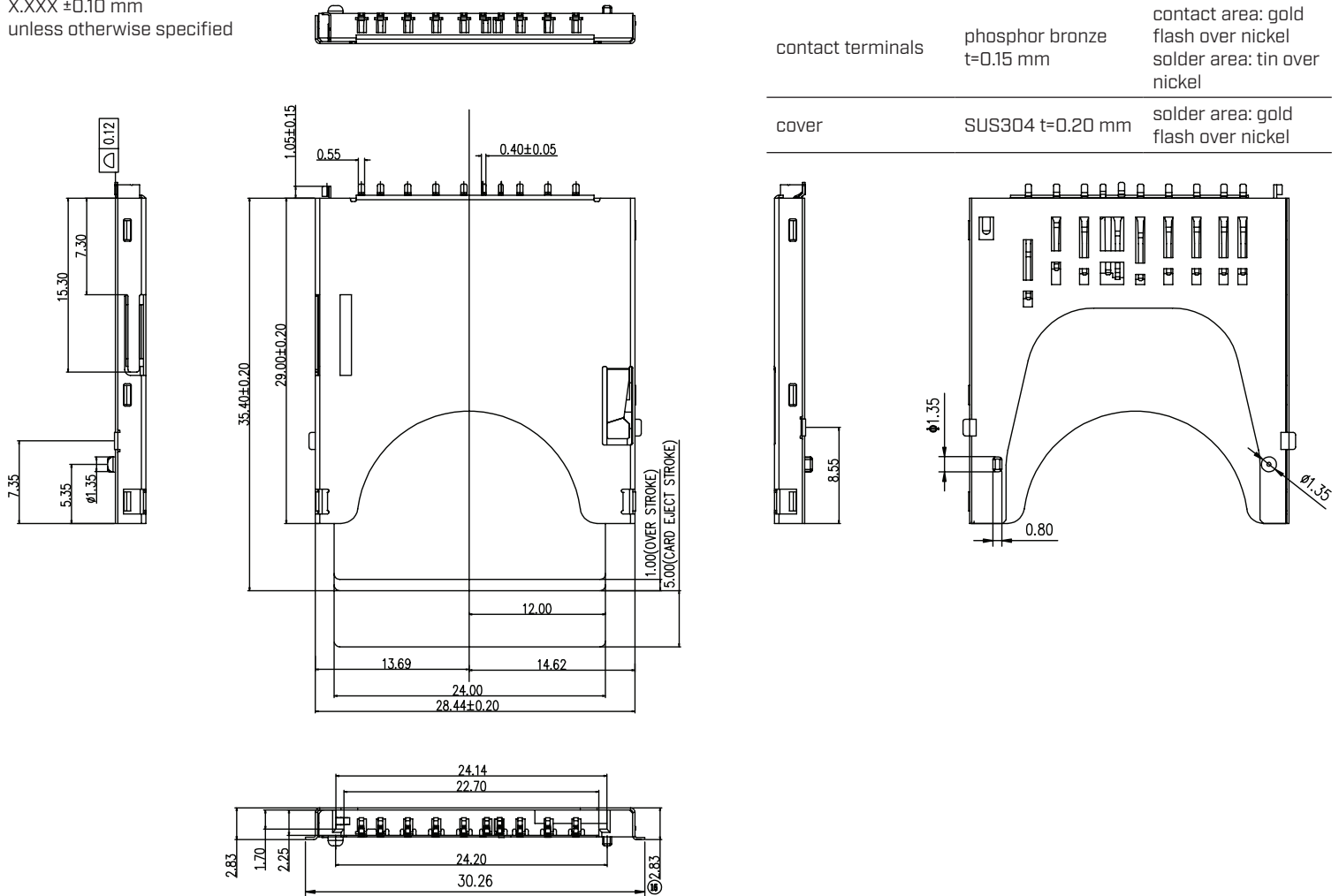
MECHANICAL DRAWING

units: mm

tolerance:

X.X ± 0.38 mmX.XX ± 0.25 mmX.XXX ± 0.10 mm

unless otherwise specified



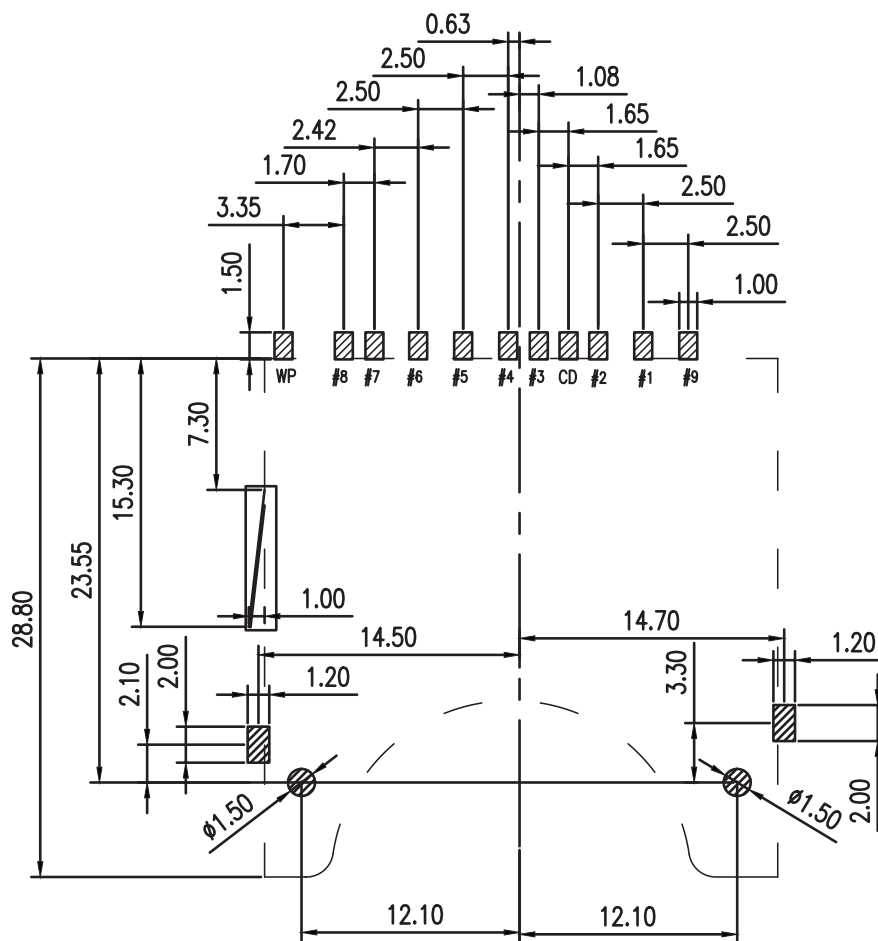
MECHANICAL DRAWING (CONTINUED)

units: mm

PCB tolerance: ± 0.05 mm

PIN CONNECTIONS			
PIN	SIGNAL NAME	TYPE	DESCRIPTION
1	CD/DAT3	I/O/PP	CARD DETECT/DATA LINE [BIT 3]
2	CMD	PP	COMMAND/RESPONSE
3	VSS1	S	SUPPLY VOLTAGE GROUND
4	VDD	S	SUPPLY VOLTAGE
5	CLK	I	CLOCK
6	VSS2	S	SUPPLY VOLTAGE GROUND
7	DAT0	I/O/PP	DATA LINE [BIT 0]
8	DAT1	I/O/PP	DATA LINE [BIT 1]
9	DAT2	I/O/PP	DATA LINE [BIT 2]
WP	-	-	WRITE PROTECT
CD	-	-	CARD DETECT SWITCH
GND	-	-	COVER GROUND

CARD STATUS		
WITHOUT CARD	CARD INSERTED WRITE PROTECT LOCK	CARD INSERTED WRITE PROTECT UNLOCK

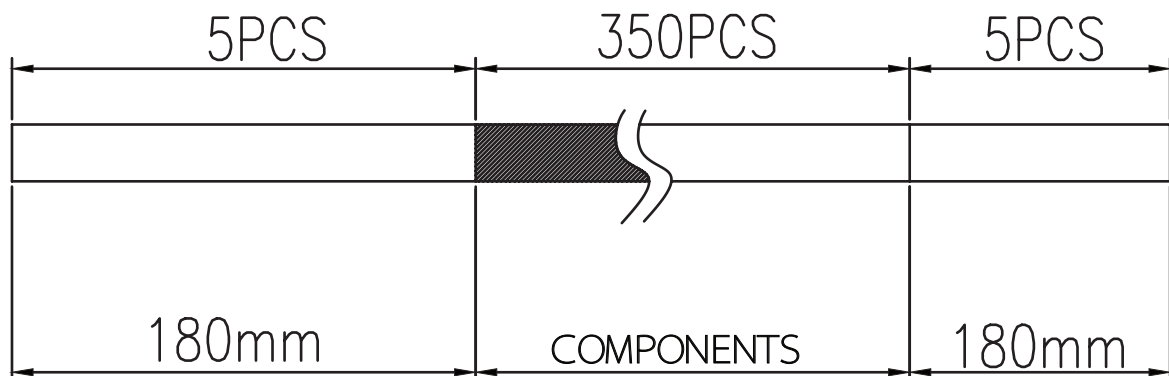
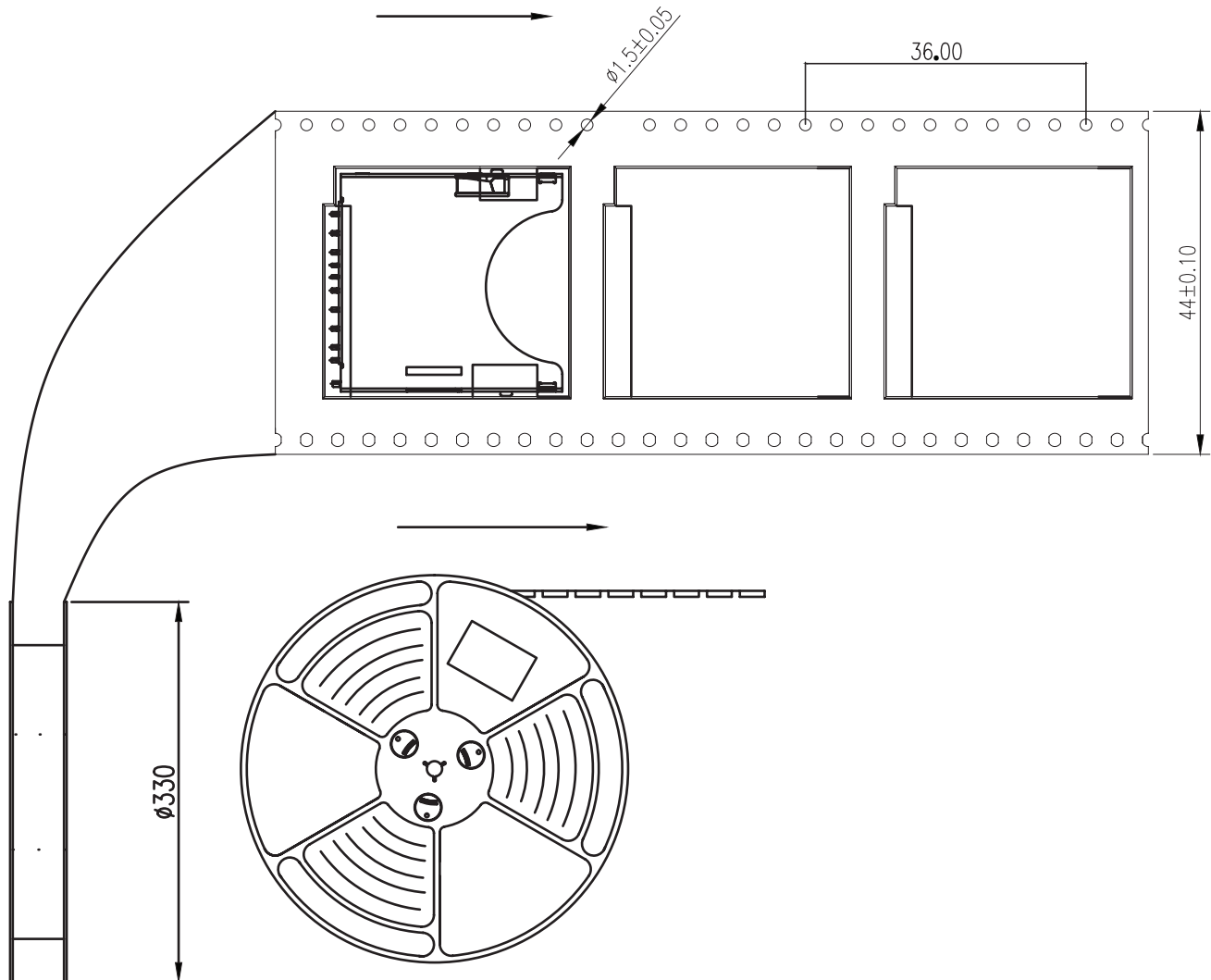
Recommended PCB Layout
Top View

PACKAGING

units: mm

Reel Size: $\varnothing 330$ mm

Reel QTY: 350 pcs per reel



REVISION HISTORY

rev.	description	date
1.0	initial release	10/24/2023

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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