CUI Devices is now Same Sky! Learn More

MODEL: MSD-4-A | DESCRIPTION: MICRO SD CARD CONNECTOR

FEATURES

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

RoHS

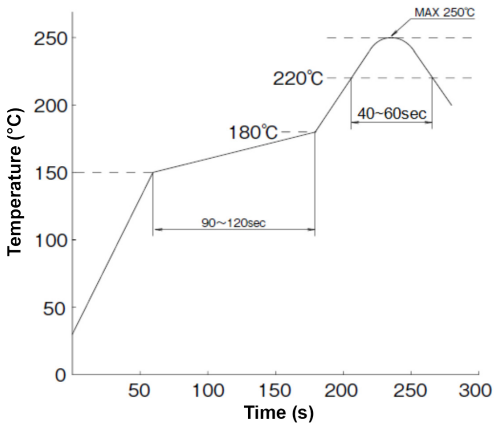
SPECIFICATIONS

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

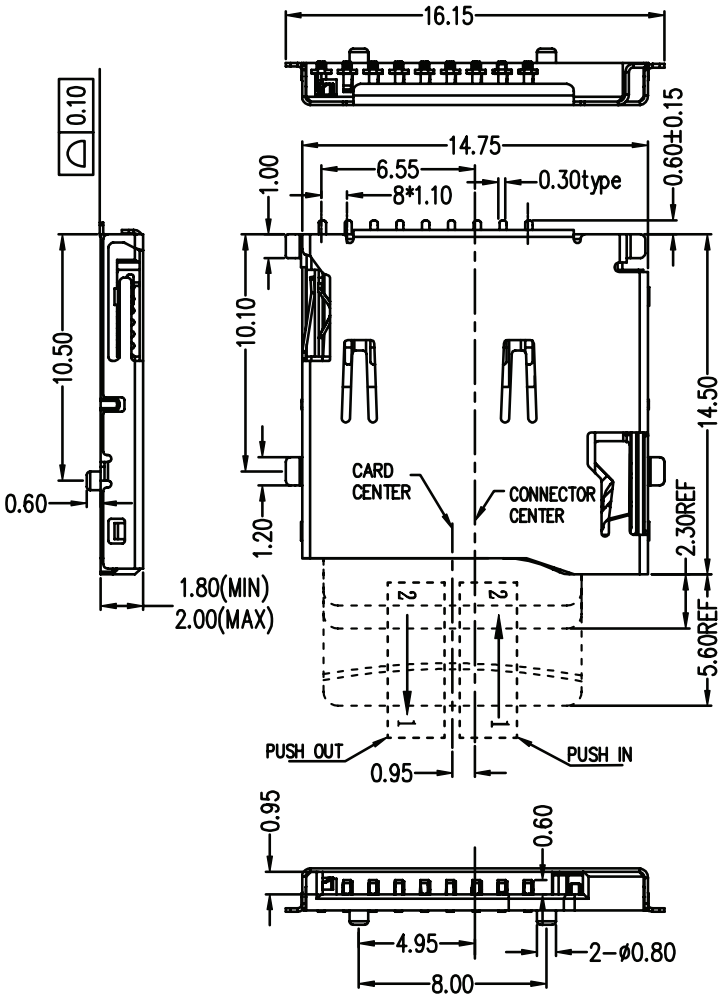
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity 40~70% reel opened: use within 1 month reel unopened: up to 15 month shelf life	16	22	28	°C
reflow soldering	see reflow profile			250	°C

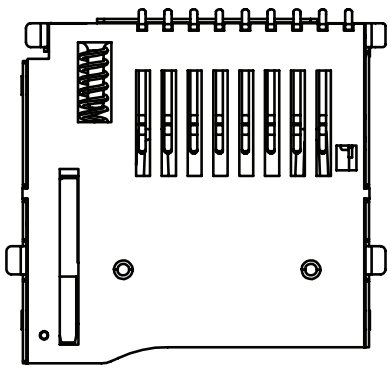


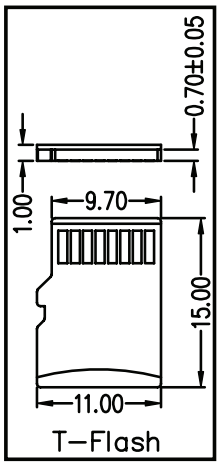
MECHANICAL DRAWING

units: mm
tolerance:
X.X ±0.38 mm
X.XX ±0.25 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=0.15 mm	contact area: gold flash over nickel solder area: tin over nickel
cover	SUS304 t=0.15 mm	nickel





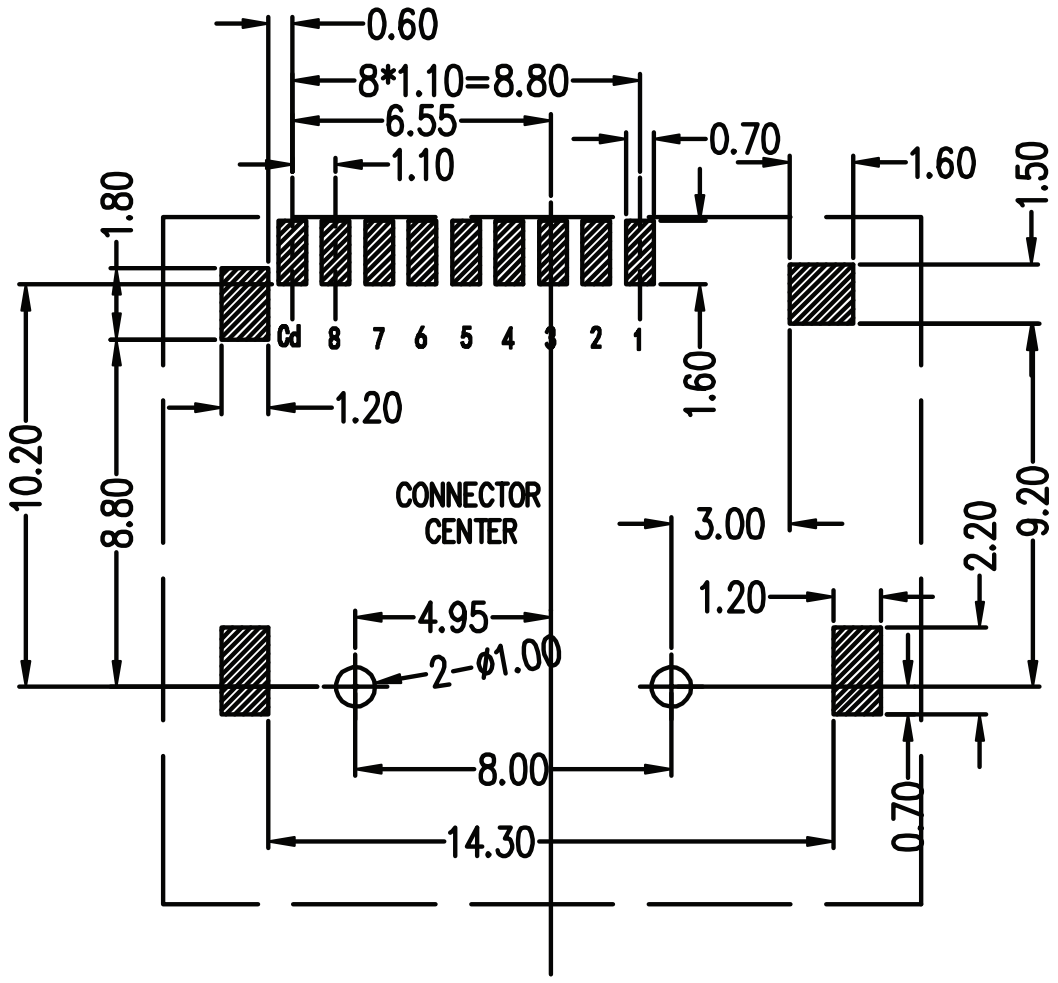


MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm

PIN CONNECTIONS			
PIN	SIGNAL NAME	TYPE	DESCRIPTION
1	DAT2	I/O/PP	DATA LINE (BIT 2)
2	CD/DAT3	I/O/PP	CARD DETECT / DATA LINE (BIT 3)
3	CMD	PP	COMMAND / RESPONSE
4	VDD	S	SUPPLY VOLTAGE
5	CLK	I	CLOCK
6	VSS	S	SUPPLY VOLTAGE GROUND
7	DAT0	I/O/PP	DATA LINE (BIT 0)
8	DAT1	I/O/PP	DATA LINE (BIT 1)
CD	-	-	CARD DETECT SWITCH
GND	-	-	COVER GROUND

CARD STATUS	
WITHOUT CARD	CARD INSERTED

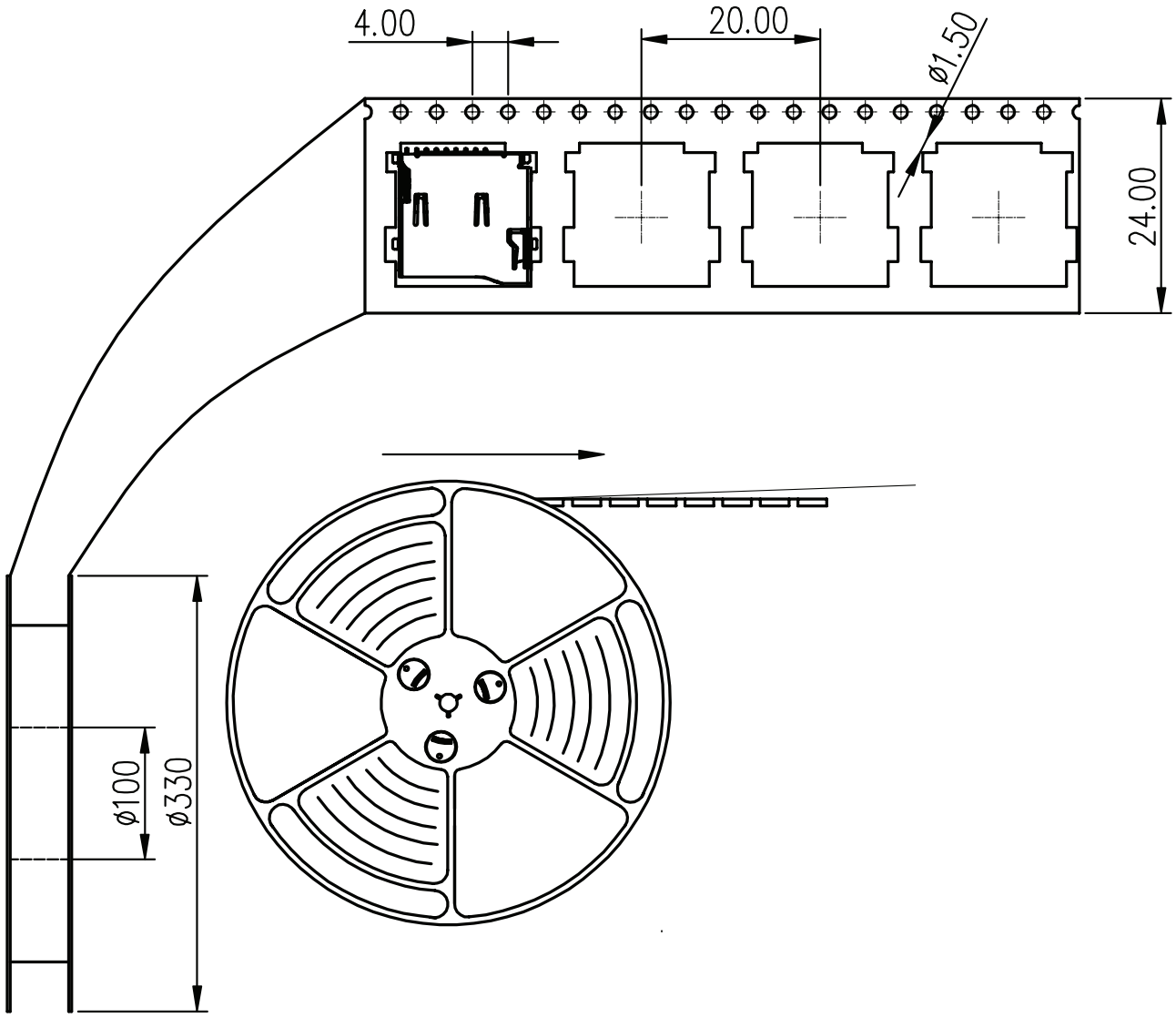


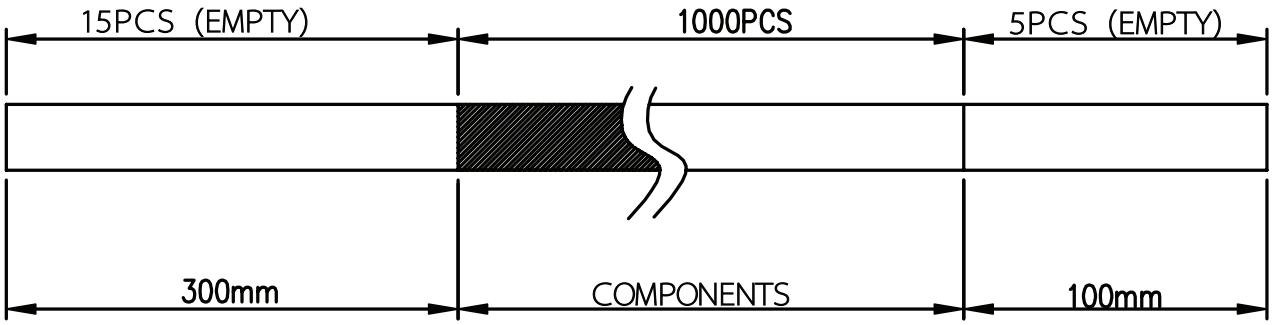
Recommended PCB Layout
Top View

PACKAGING

units: mm

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





REVISION HISTORY

rev.	description	date
1.0	initial release	10/24/2023
1.01	CUI Devices rebranded to Same Sky	09/12/2024
1.02	changed manufacturing location	11/01/2024

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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