

MODEL: MSD-12-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

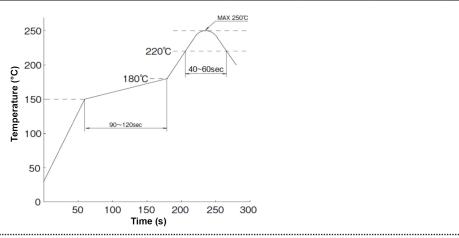
parameter	conditions/description	min	typ	max	units
rated voltage				30	V
rated current				0.5	А
contact resistance ¹				100	mΩ
insulation resistance	at 500 Vdc, between adjacent circuits	1,000			MΩ
voltage withstand	for 1 minute, between adjacent circuits		500		Vdc
insertion force	at a rate of 25 mm/min			10	N
withdrawal force	at a rate of 25 mm/min	0.5			N
life			5,000		cycles
operating temperature		-45		75	°C
flammability rating	UL94V-0				
RoHS	Ves				

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

SOLDERABILITY

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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



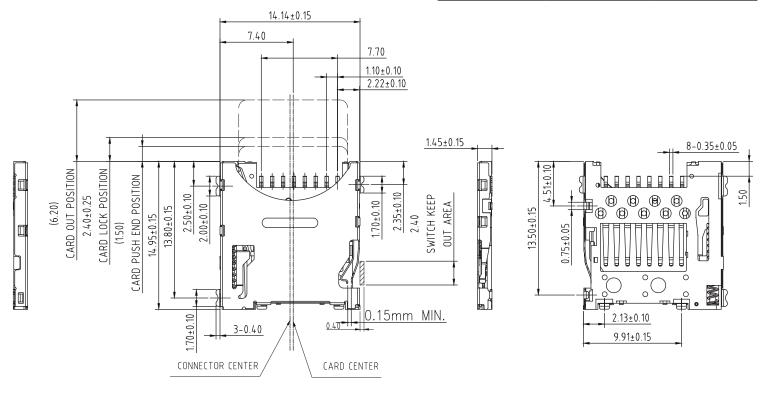
cuidevices.com

MECHANICAL DRAWING

units: mm tolerance: X.X ±0.38 mm X.XX ±0.25 mm X.XXX ±0.15 mm unless otherwise specified

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DESCRIPTION	MATERIAL	PLATING/COLOR
housing	LCP (UL94-0)	black
contact terminals	phosphor bronze t=0.12 mm	contact area: gold flash over nickel solder area: tin over nickel
cover	SUS304 t=0.12 mm	solder area: gold flash over nickel



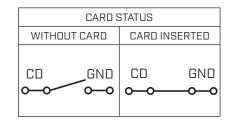
∠ 0.10	
ALL TAILS	5

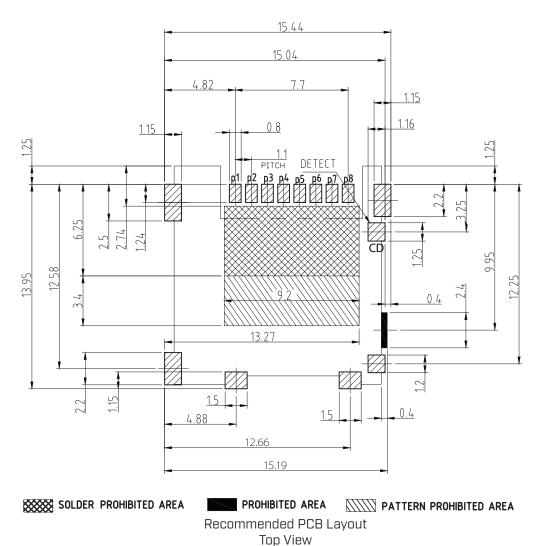
MECHANICAL DRAWING (CONTINUED)

units: mm PCB tolerance: ±0.05 mm

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	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	DATO	I/O/PP	DATA LINE (BIT O)		
8	DAT1	I/O/PP	DATA LINE (BIT 1)		
CD	-	-	CARD DETECT SWITCH		
GND	-	-	COVER GROUND		

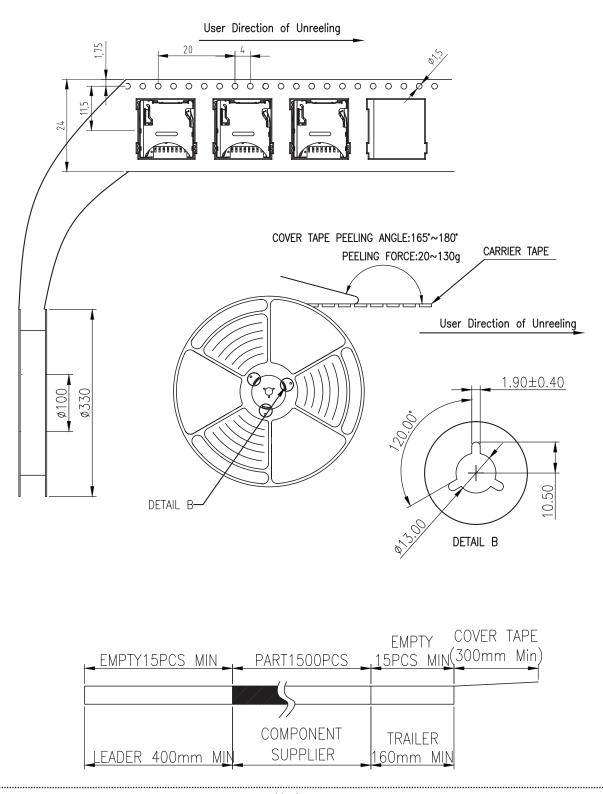




PACKAGING

units: mm

Reel Size: Ø330 mm Reel QTY: 1,500 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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