

# MODEL: SD4-4-B | DESCRIPTION: SD 4.0 CARD CONNECTOR

#### **FEATURES**

- SD 4.0 card connector
- push in, pull out
- card detect switch
- gold flash
- surface mount
- UL94V-0





### **SPECIFICATIONS**

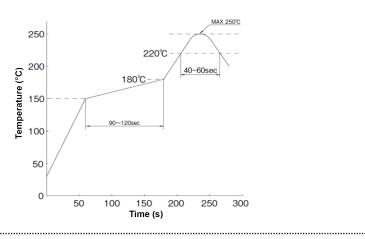
parameter	conditions/description	min	typ	max	units
rated voltage				30	V
rated current				0.5	А
contact resistance <sup>1</sup>				100	mΩ
insulation resistance	at 500 Vdc, between adjacent circuits	1,000			MΩ
voltage withstand	for 1 minute, between adjacent circuits		100		Vac
insertion force	at a rate 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 m <sup>3</sup>	V / 100 mA.				

n measured at 20 mV / 10

#### **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	nin 1 month			°C
reflow soldering	see reflow profile			250	°C



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<u>D</u> 0.10

3.13

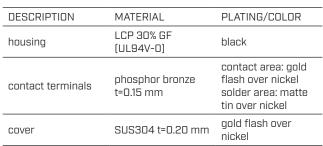
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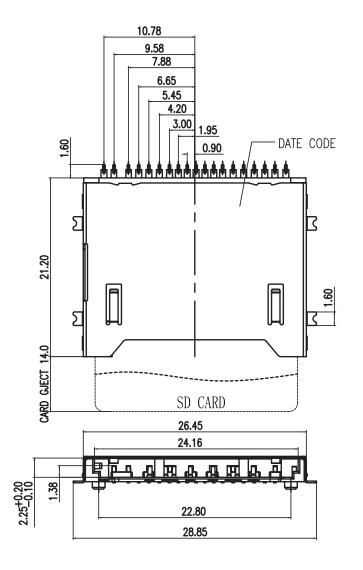
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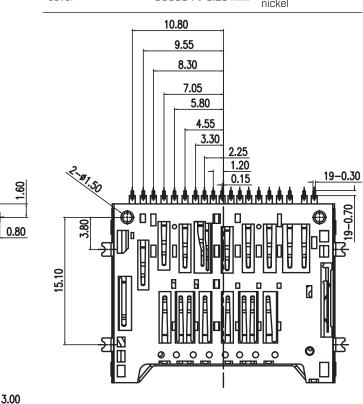
#### **MECHANICAL DRAWING**

units: mm tolerance: X.X ±0.30 mm X.XX ±0.20 mm X.XXX ±0.10 mm unless otherwise specified

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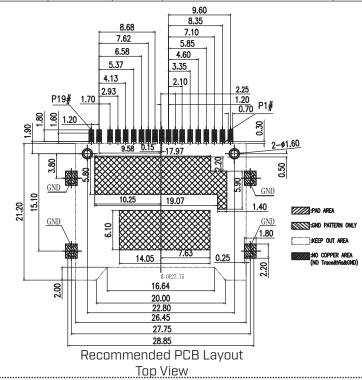


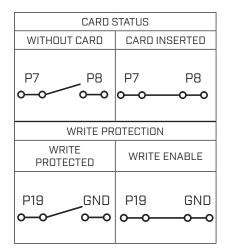


## **MECHANICAL DRAWING (CONTINUED)**

units: mm PCB tolerance: ±0.05 mm

				PIN CONNECTIONS				
CONNECTOR SD CARD		SD MODE			UHS-II MODE			
	PIN# SIGN	SIGNAL NAME	TYPE	DESCRIPTION	SIGNAL NAME	TYPE	DESCRIPTION	
P1	10	-	-	NOT USED	VSS3	S	SUPPLY VOLTAGE GROUND	
P2	9	DAT2	I/O/PP	DATA LINE (BIT 2)	-	-	NOT USED	
P3	11	-	-	NOT USED	00+	LVDS	00+	
P4	1	CD/DAT3	I/O/PP	CARD DETECT/DATA LINE (BIT 3)	-	-	NOT USED	
P5	12	-	-	NOT USED	00-	LVDS	00-	
P6	2	CMD	PP	COMMAND/RESPONSE	-	-	NOT USED	
P7	CD	CD	-	CARD DETECT SWITCH	CD	-	CARD DETECT SWITCH	
P8	3	VSS1	S	SUPPLY VOLTAGE GROUND	VSS1	S	SUPPLY VOLTAGE GROUND	
P9	13	-	-	NOT USED	VSS4	S	SUPPLY VOLTAGE GROUND	
P10	14	-	-	NOT USED	VDD2	S	SUPPLY VOLTAGE (1.8 V)	
P11	4	VDD	S	SUPPLY VOLTAGE	VDD1	S	SUPPLY VOLTAGE (3.3 V)	
P12	15	-	-	NOT USED	D1-	LVDS	D1-	
P13	5	CLK	1	CLOCK	-	-	NOT USED	
P14	16	-	-	NOT USED	D1+	LVDS	D1+	
P15	6	VSS2	S	SUPPLY VOLTAGE GROUND	VSS2	S	SUPPLY VOLTAGE GROUND	
P16	17	-	-	NOT USED	VSS5	S	SUPPLY VOLTAGE GROUND	
P17	7	DATO	I/O/PP	DATA LINE (BIT O)	RCLK+	I	RCLK+	
P18	8	DAT1	I/O/PP	DATA LINE (BIT 1)	RCLK-	I	RCLK-	
P19	WP	WP	-	WRITE PROTECT	WP	-	WRITE PROTECT	
GND	-	-	-	COVER GROUND	-	-	COVER GROUND	





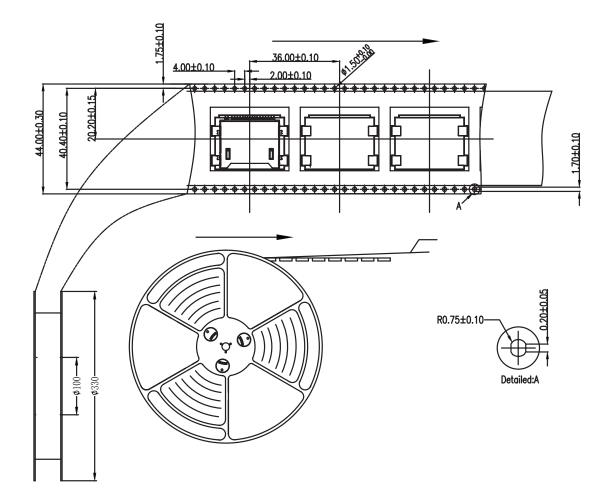
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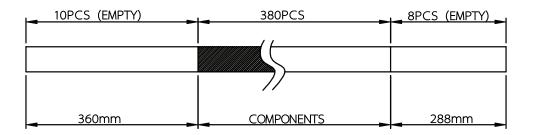
### PACKAGING

units: mm

Reel Size: Ø330 mm Reel QTY: 380 pcs per reel

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#### **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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