

**MODEL:** SD-4-B | **DESCRIPTION:** SD CARD CONNECTOR**FEATURES**

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

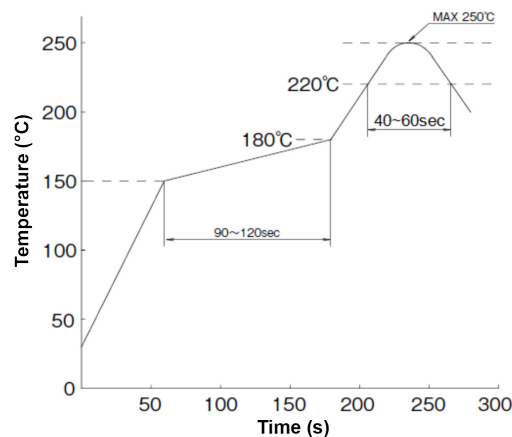
**SPECIFICATIONS**

| parameter                       | conditions/description                  | min   | typ   | max | units  |
|---------------------------------|-----------------------------------------|-------|-------|-----|--------|
| rated voltage                   |                                         |       |       | 30  | V      |
| rated current                   |                                         |       |       | 0.5 | 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.

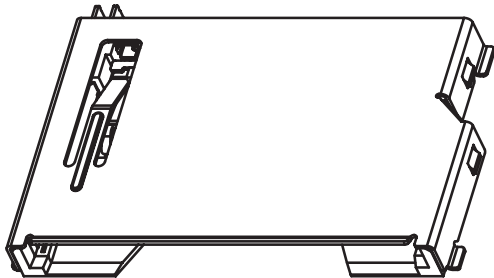
**SOLDERABILITY**

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

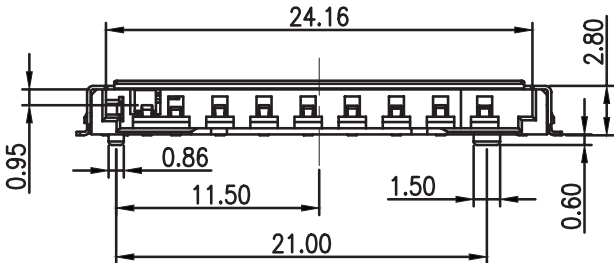
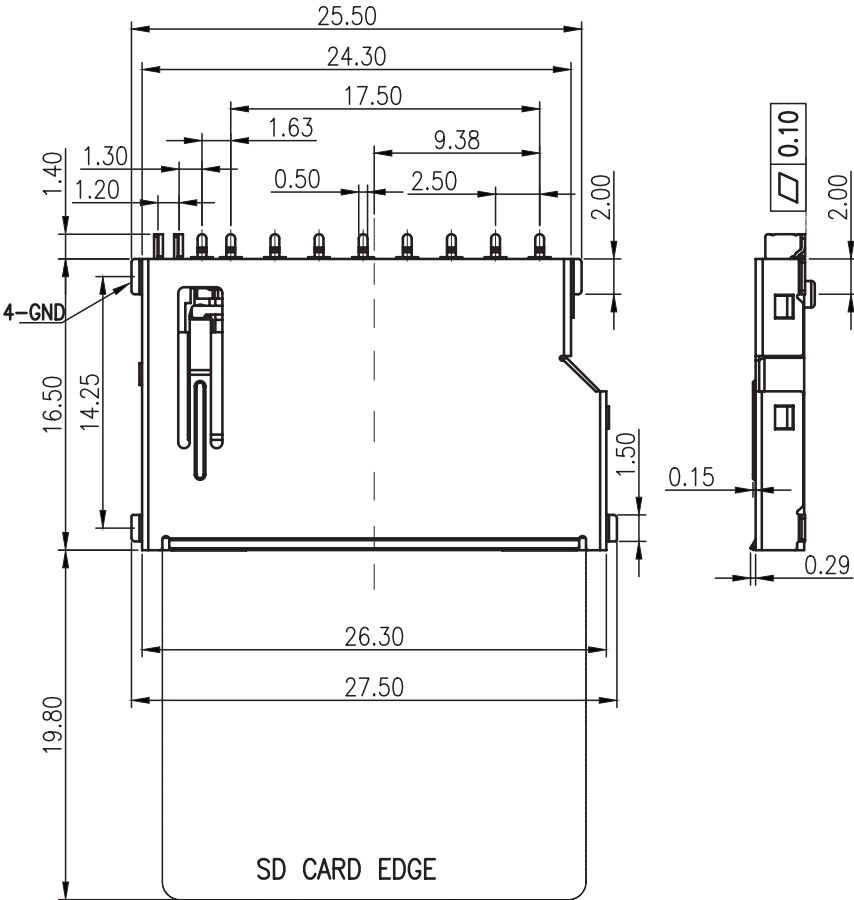


MECHANICAL DRAWING

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<br>t=0.20 mm | contact area: gold<br>over nickel<br>solder area: tin over<br>nickel |
| cover             | phosphor bronze<br>t=0.20 mm | nickel                                                               |

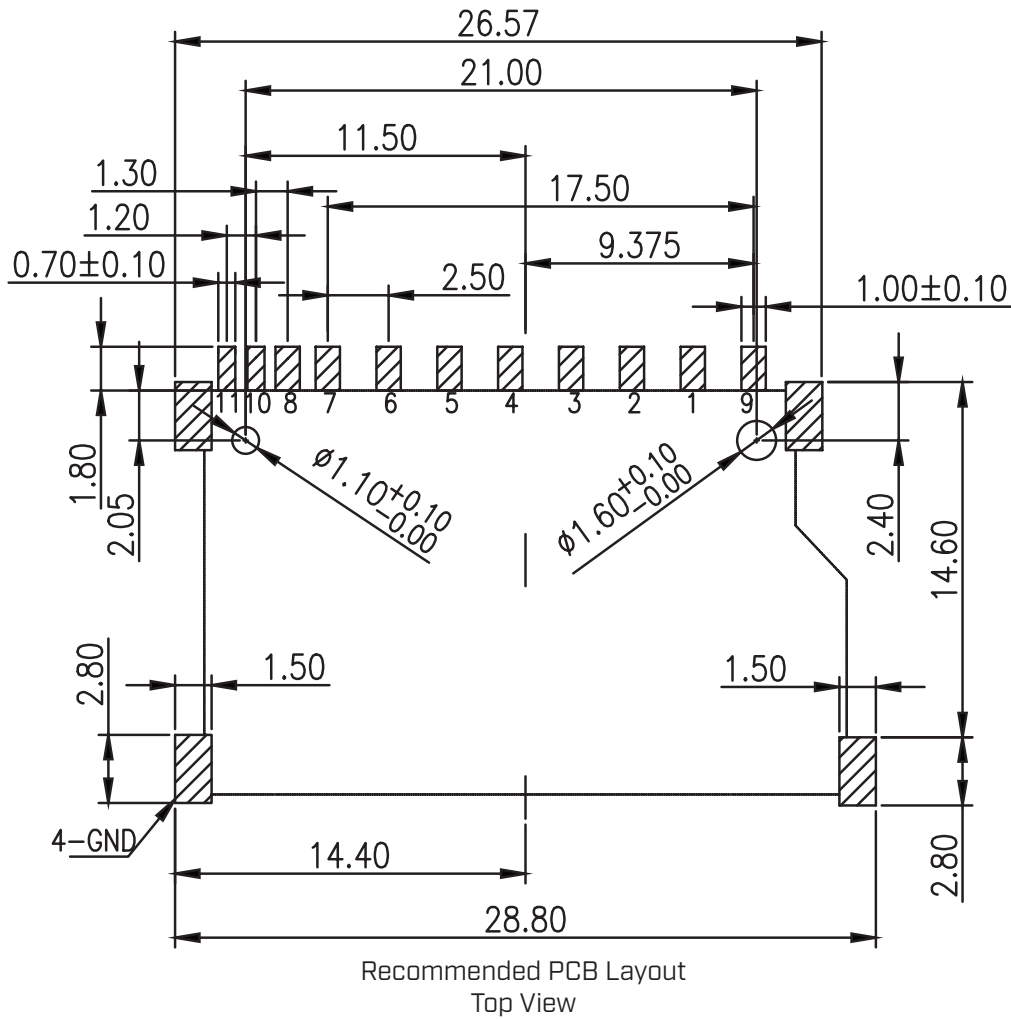


MECHANICAL DRAWING (CONTINUED)

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]             |
| 10              | CD          | -      | CARD DETECT SWITCH            |
| 11              | WP          | -      | WRITE PROTECT                 |
| GND             | -           | -      | COVER GROUND                  |

| CARD STATUS  |                                        |                                          |
|--------------|----------------------------------------|------------------------------------------|
| WITHOUT CARD | CARD INSERTED<br>WRITE PROTECT<br>LOCK | CARD INSERTED<br>WRITE PROTECT<br>UNLOCK |
|              |                                        |                                          |

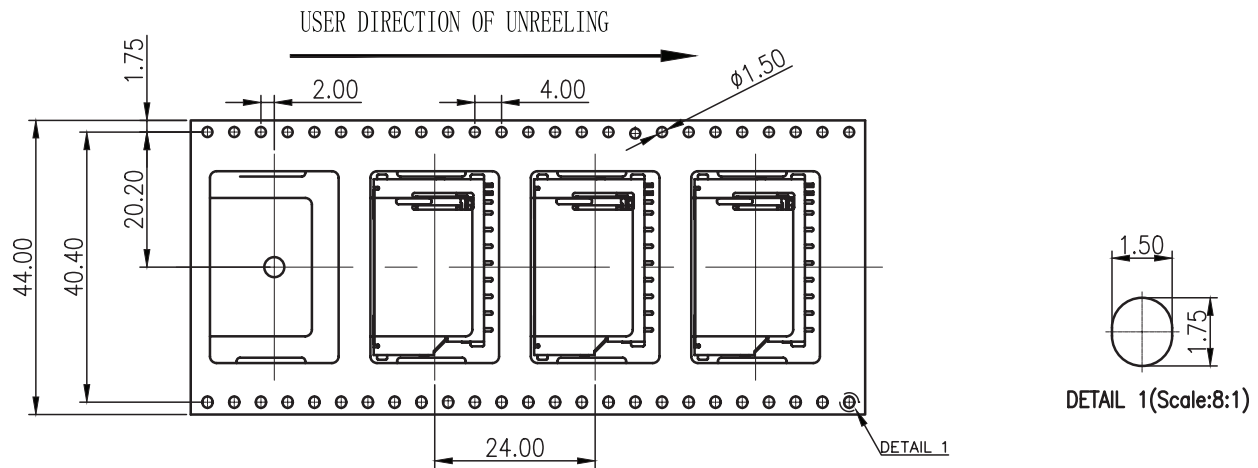


## PACKAGING

units: mm

Reel Size: Ø330 mm

Reel QTY: 600 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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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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