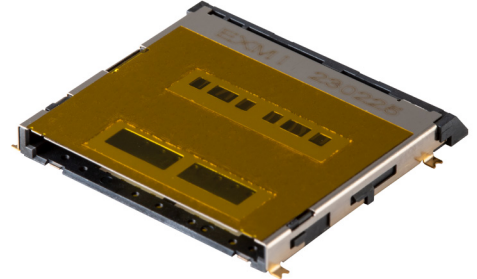


MODEL: SD4-3-B | **DESCRIPTION:** SD 4.0 CARD CONNECTOR

FEATURES

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

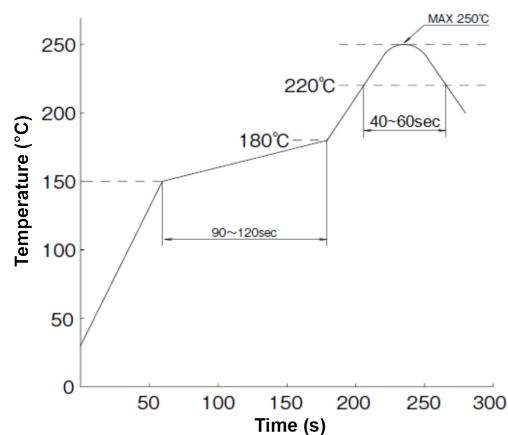

SPECIFICATIONS

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

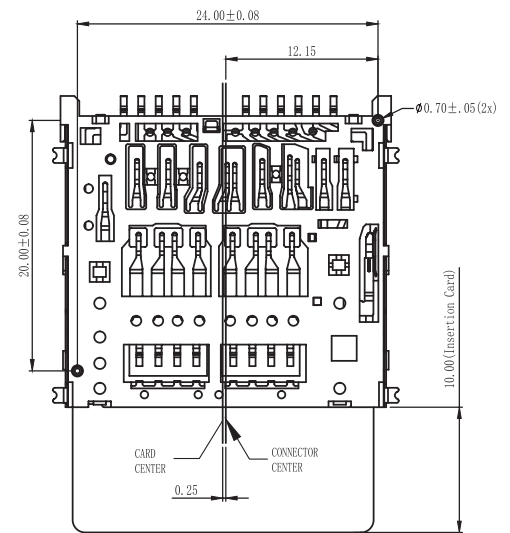
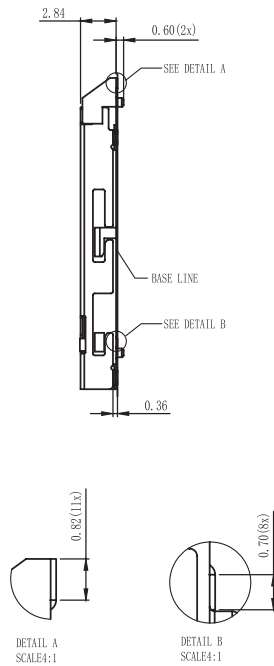
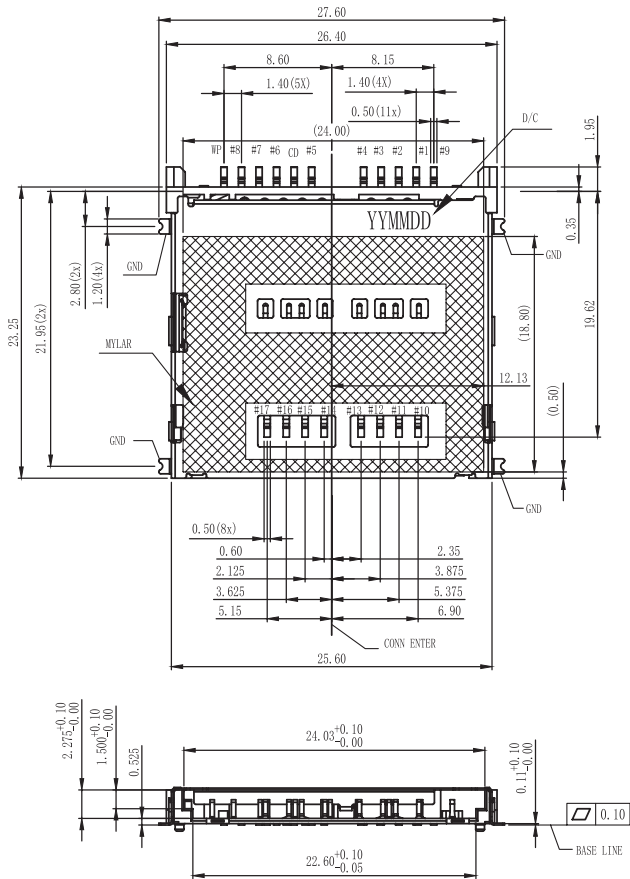
| parameter | conditions/description | min | typ | max | units |
|------------------|--|-----|-----|-----|-------|
| reel storage | at relative humidity 40-70% reel opened: use within 1 month reel unopened: up to 15 month shelf life | 16 | 22 | 28 | °C |
| reflow soldering | see reflow profile | | |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

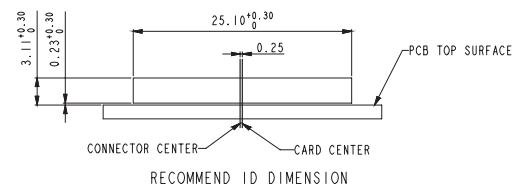
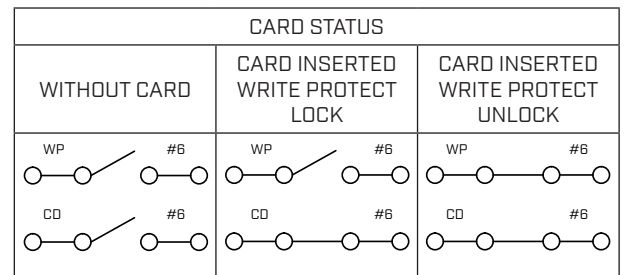
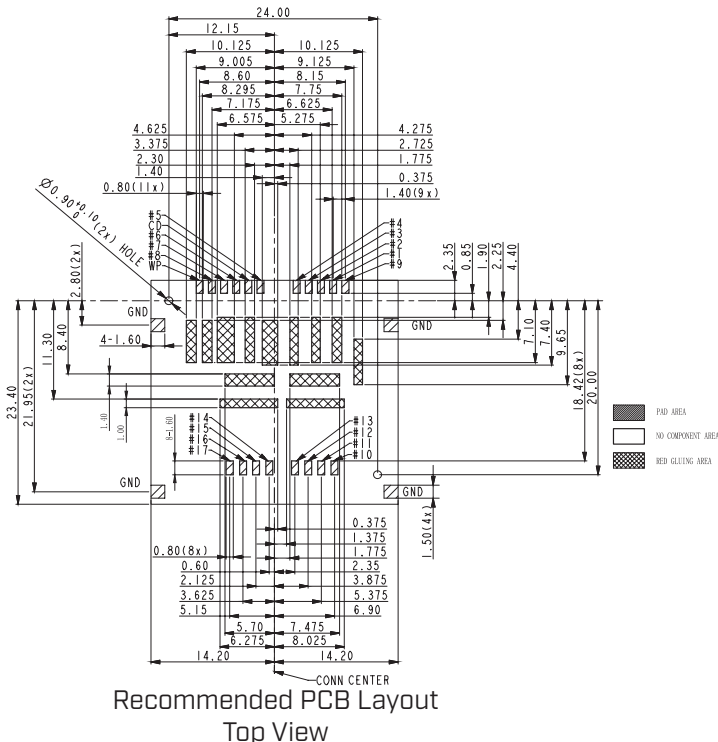
| DESCRIPTION | MATERIAL | PLATING/COLOR |
|-------------------|------------------------------|---|
| housing | LCP (UL94V-0) | black |
| contact terminals | phosphor bronze t=0.12 mm | contact area: gold over nickel solder area: gold flash over nickel |
| cover | SUS304 t=0.15 mm | contact area: gold flash over nickel solder area: gold flash over nickel |



MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm

| PIN CONNECTIONS | | | | | | |
|-----------------|-------------|--------|-------------------------------|-------------|------|------------------------|
| PIN# | SD MODE | | | UHS-II MODE | | |
| | SIGNAL NAME | TYPE | DESCRIPTION | SIGNAL NAME | TYPE | DESCRIPTION |
| 9 | DAT2 | I/O/PP | DATA LINE (BIT 2) | - | - | NOT USED |
| 1 | CD/DAT3 | I/O/PP | CARD DETECT/DATA LINE (BIT 3) | - | - | NOT USED |
| 2 | CMD | PP | COMMAND/RESPONSE | - | - | NOT USED |
| 3 | VSS1 | S | SUPPLY VOLTAGE GROUND | VSS1 | S | SUPPLY VOLTAGE GROUND |
| 4 | VDD | S | SUPPLY VOLTAGE | VDD1 | S | SUPPLY VOLTAGE (3.3 V) |
| 5 | CLK | I | CLOCK | - | - | NOT USED |
| CD | CD | - | CARD DETECT SWITCH | CD | - | CARD DETECT SWITCH |
| 6 | VSS2 | S | SUPPLY VOLTAGE GROUND | VSS2 | S | SUPPLY VOLTAGE GROUND |
| 7 | DAT0 | I/O/PP | DATA LINE (BIT 0) | RCLK+ | I | RCLK+ |
| 8 | DAT1 | I/O/PP | DATA LINE (BIT 1) | RCLK- | I | RCLK- |
| WP | WP | - | WRITE PROTECT | WP | - | WRITE PROTECT |
| 10 | - | - | NOT USED | VSS3 | S | SUPPLY VOLTAGE GROUND |
| 11 | - | - | NOT USED | DO+ | LVDS | DO+ |
| 12 | - | - | NOT USED | DO- | LVDS | DO- |
| 13 | - | - | NOT USED | VSS4 | S | SUPPLY VOLTAGE GROUND |
| 14 | - | - | NOT USED | VDD2 | S | SUPPLY VOLTAGE (1.8 V) |
| 15 | - | - | NOT USED | D1- | LVDS | D1- |
| 16 | - | - | NOT USED | D1+ | LVDS | D1+ |
| 17 | - | - | NOT USED | VSS5 | S | SUPPLY VOLTAGE GROUND |
| GND | - | - | COVER GROUND | - | - | COVER GROUND |



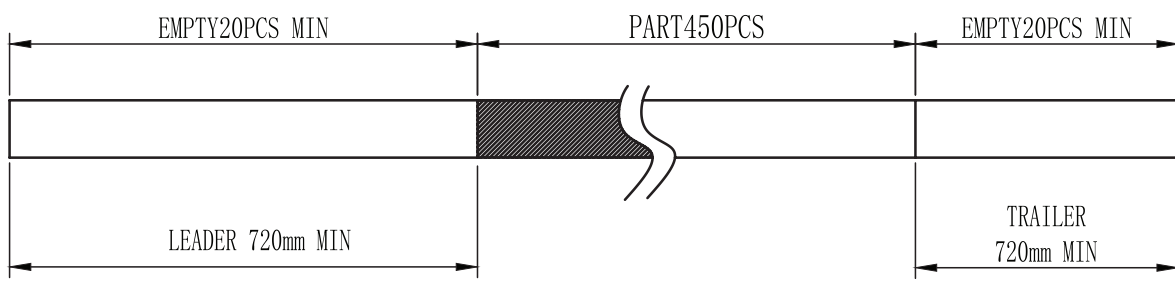
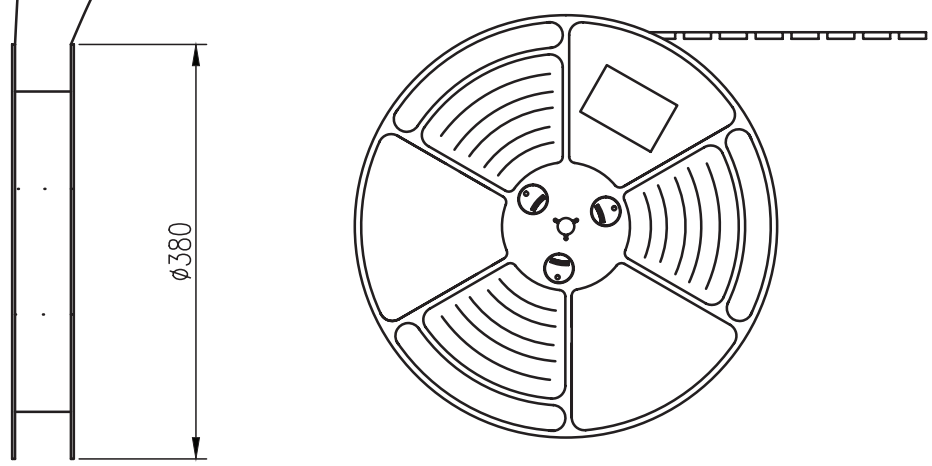
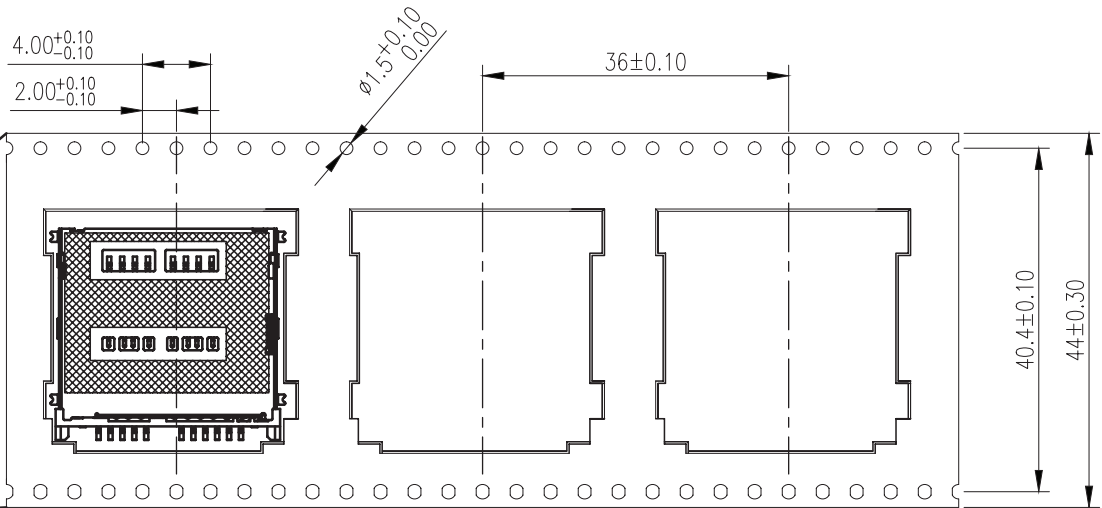
PACKAGING

units: mm

Reel Size: $\varnothing 380$ mm

Reel QTY: 450 pcs per reel

USER DIRECTION OF UNREELING



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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