

MODEL: SIM-5-A | **DESCRIPTION:** SIM CARD CONNECTOR**FEATURES**

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

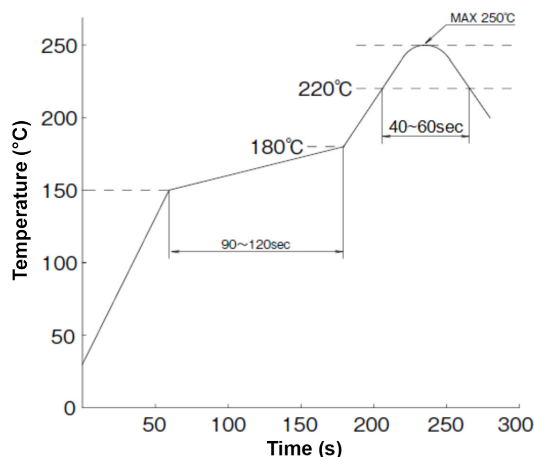
**SPECIFICATIONS**

| 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

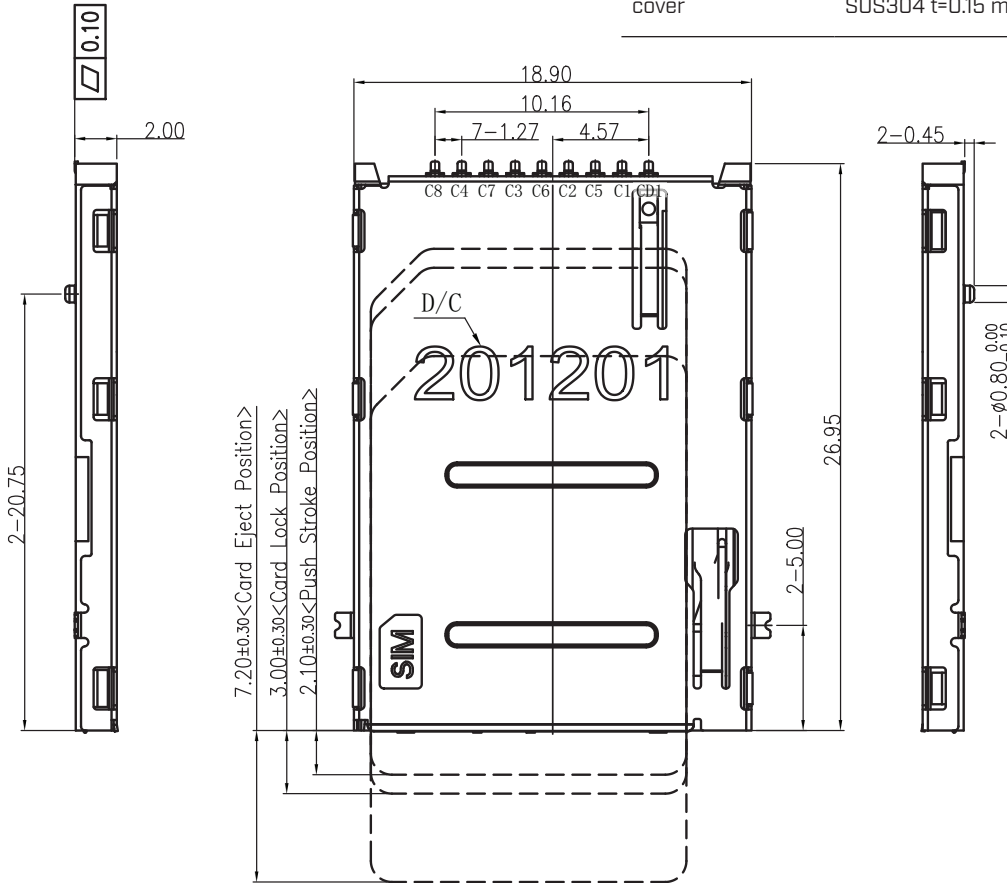
| parameter | conditions/description | min | typ | max | units |
|------------------|--|-----|-----|-----|-------|
| reel storage | at relative humidity 40~70% reel opened: use within 1 month reel unopened: up to 15 month shelf life | 16 | 22 | 28 | °C |
| reflow soldering | see reflow profile | | |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



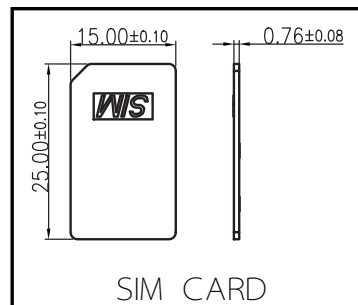
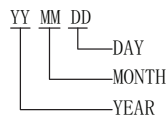
MECHANICAL DRAWING

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

| DESCRIPTION | MATERIAL | PLATING/COLOR |
|-------------------|------------------------------|---|
| housing | LCP 30% GF (UL94-0) | black |
| contact terminals | phosphor bronze t=0.15 mm | contact area: gold flash over nickel solder area: gold flash over nickel |
| cover | SUS304 t=0.15 mm | solder area: gold flash over nickel |



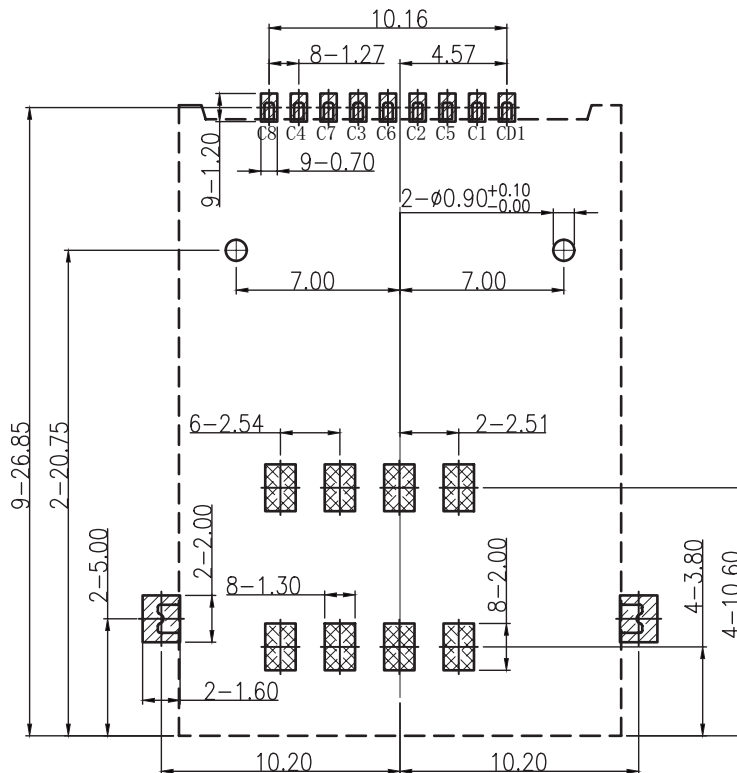
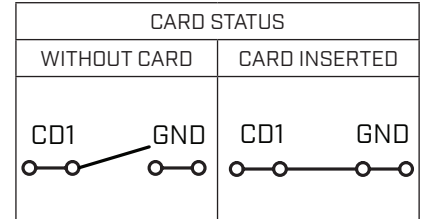
Printing instructions:



MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm

| PIN CONNECTIONS | | |
|-----------------|-------------|---------------------|
| PIN | SIGNAL NAME | DESCRIPTION |
| C1 | VCC | SUPPLY VOLTAGE |
| C2 | RST | RESETTING |
| C3 | CLK | CLOCK |
| C4 | RESERVED | - |
| C5 | GND | GROUND |
| C6 | VPP | PROGRAMMING VOLTAGE |
| C7 | I/O | DATA LINE |
| C8 | RESERVED | - |
| CD1 | - | CARD DETECT SWITCH |



- SMT SOLDER AREA
- COPPER RESTRICTED AREA
 1. TOUCH AREA OF CONTACT TIPS NO ELECTRICAL FUNCTION
 2. NO FIRST PCB LAYOUT CIRCUITS IN THE AREA

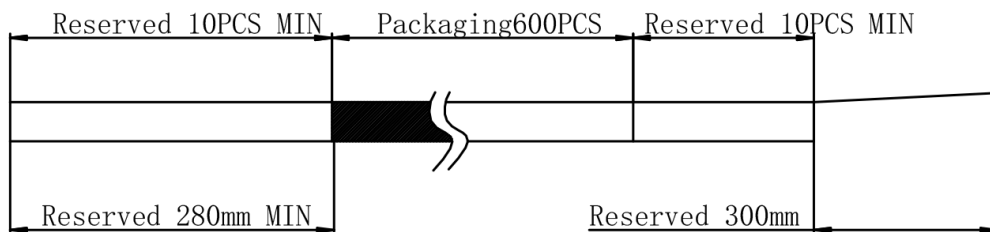
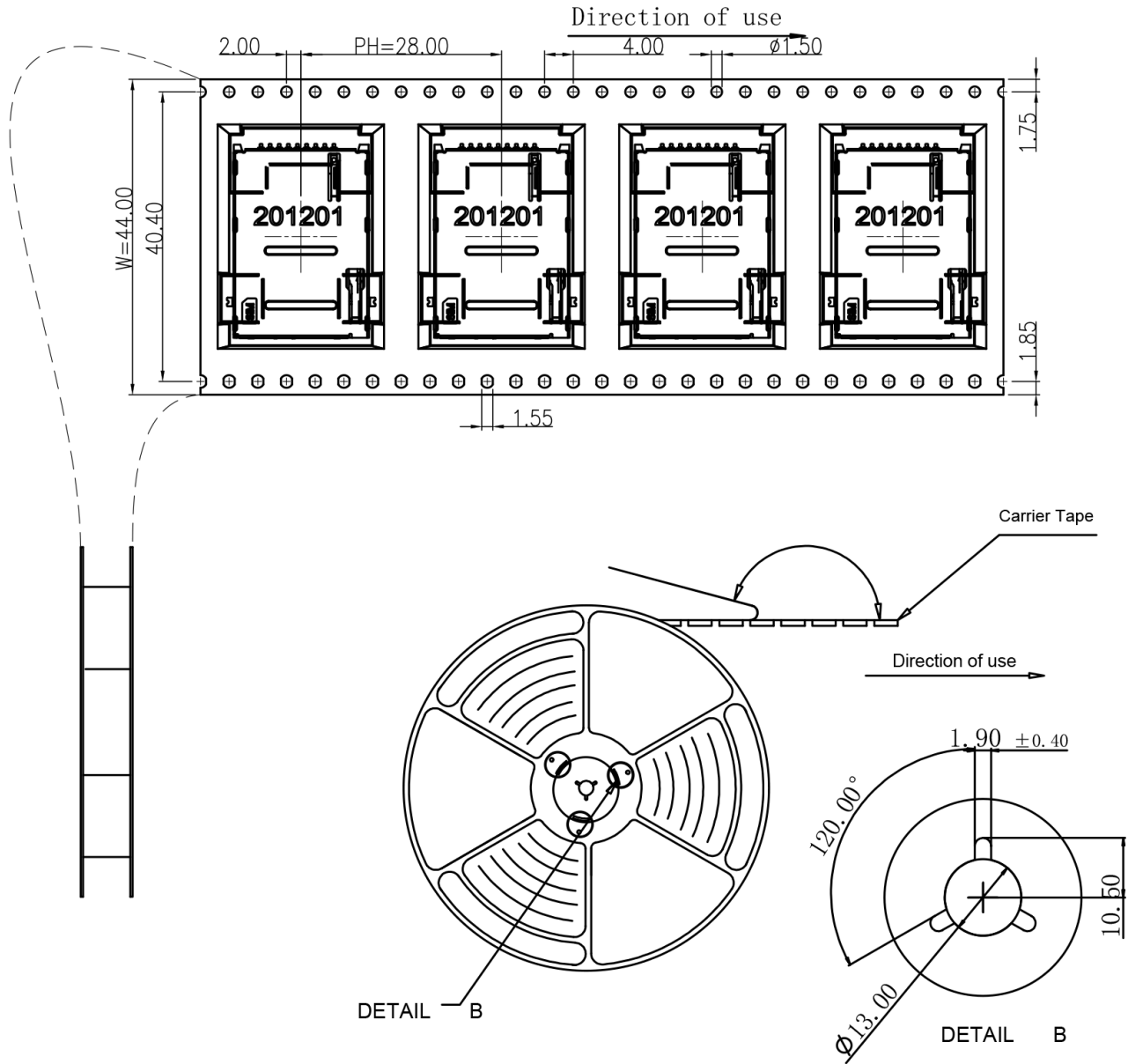
Recommended PCB Layout
Top View

PACKAGING

units: mm

Reel Size: $\varnothing 330$ mm

Reel QTY: 600 pcs per reel



REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 10/24/2023 |

The revision history provided is for informational purposes only and is believed to be accurate.



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