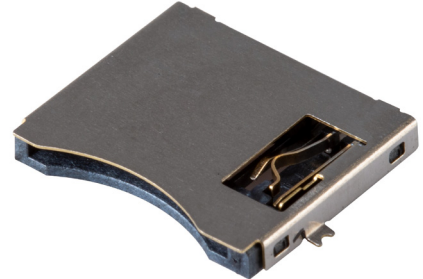# same sky

MODEL: MSD-11-A | **DESCRIPTION:** MICRO SD CARD CONNECTOR

FEATURES

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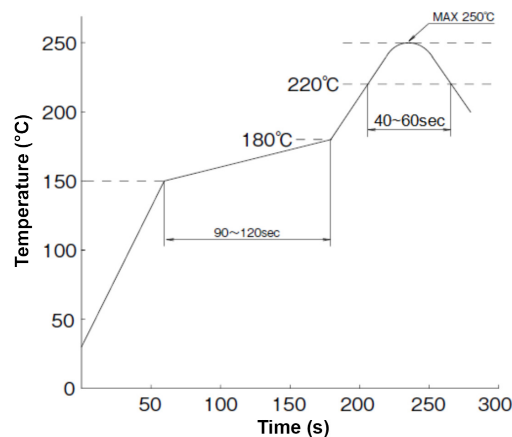- gold flash
- surface mount
- UL94V-0

RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage				30	V
rated current				0.5	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			2,000		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
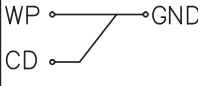X.XX ±0.20 mm
X.XXX ±0.10 mm
unless otherwise specified

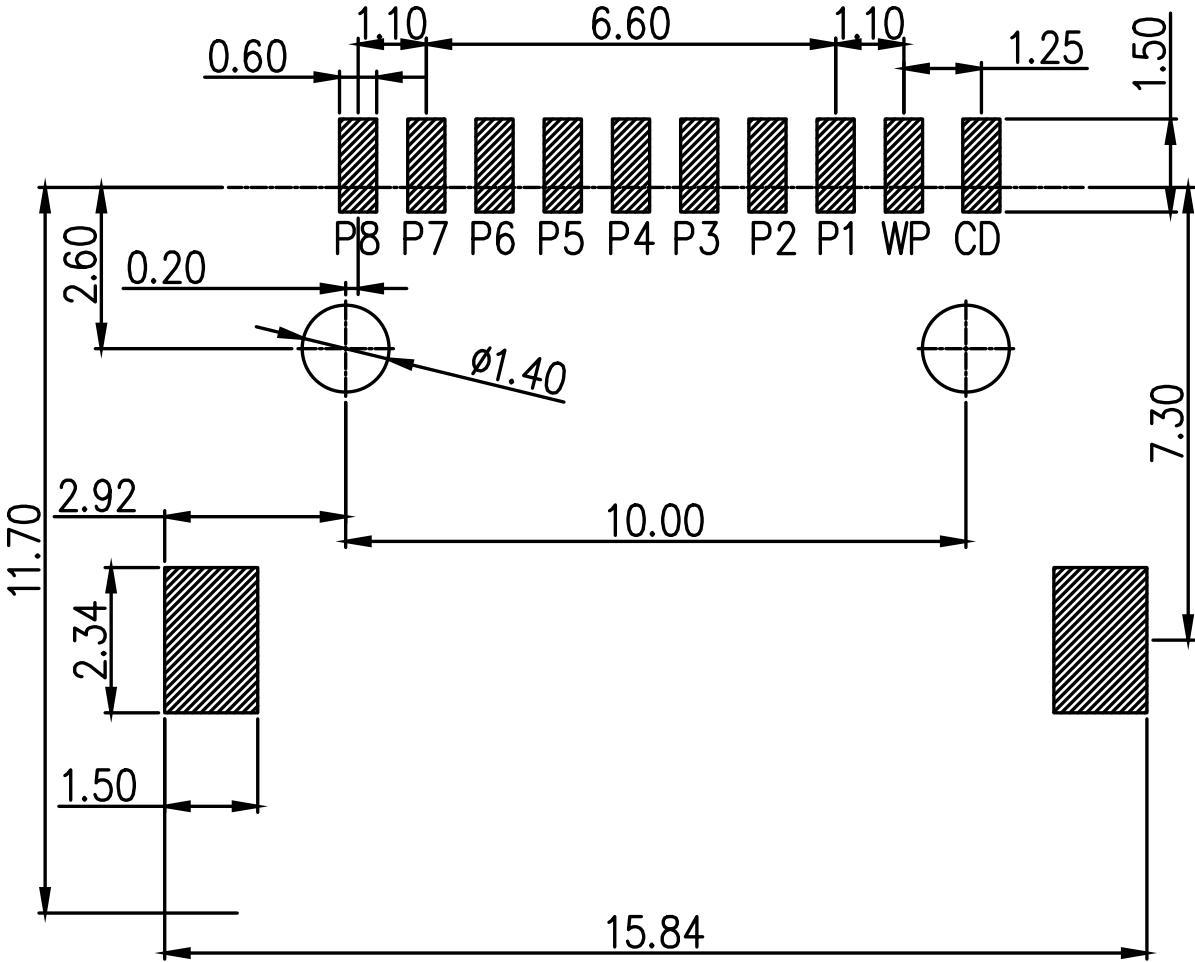| DESCRIPTION	MATERIAL	PLATING/COLOR
housing	LCP 30% GF (UL94-0)	black
contact terminals	phosphor bronze t=0.15 mm	contact area: gold flash over nickel solder area: tin over nickel
cover	C2680 t=0.15 mm	nickel
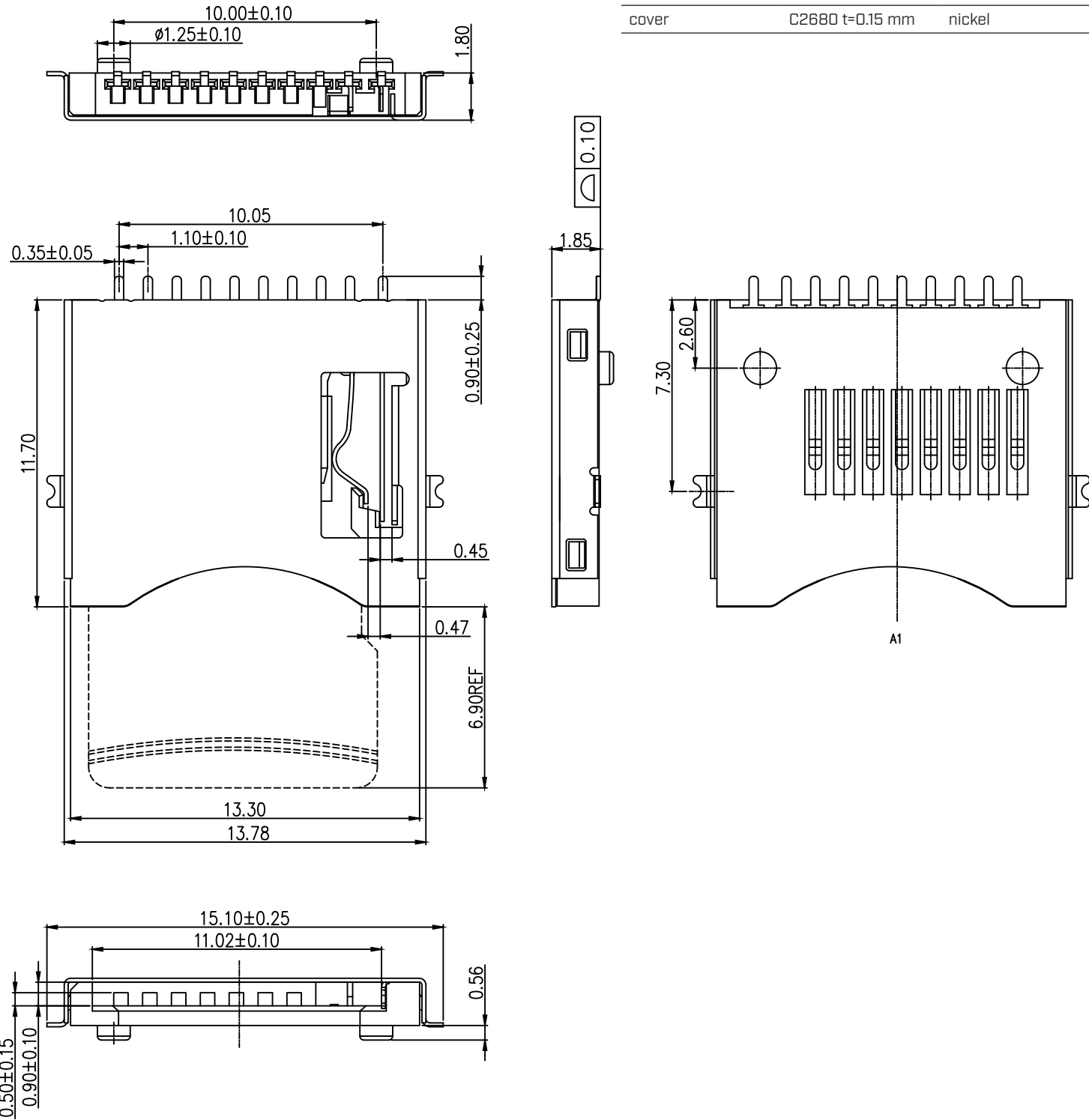
MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm

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	DAT0	I/O/PP	DATA LINE [BIT 0]
8	DAT1	I/O/PP	DATA LINE [BIT 1]
CD	-	-	CARD DETECT SWITCH
WP	-	-	SIDE SPRING
GND	-	-	COVER GROUND

CARD STATUS	
WITHOUT CARD	CARD INSERTED
WP∘ ∘GND CD∘	WP∘————∘GND CD∘

Recommended PCB Layout
Top View

PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 1,000 pcs per reel

USER DIRECTION OF UNREELING

11.50±0.10
1.75±0.10
20.00±0.10
4.00±0.10
2.00±0.10
Ø1.50 +0.10 −0.00
24.00±0.30

COVER TAPE PEELING ANGLE:165°~180°
PEELING FORCE:20~130g
CARRIER TAPE

USER DIRECTION OF UNREELING

Ø100
Ø330

DETAIL B

1.90±0.40
120.00°
Ø13.00
10.50

DETAIL B

EMPTY10PCS MIN
PART1000PCS
EMPTY 10PCS MIN
COVER TAPE (300mm Min)

LEADER 200mm MIN
COMPONENT SUPPLIER
TRAILER 200mm MIN
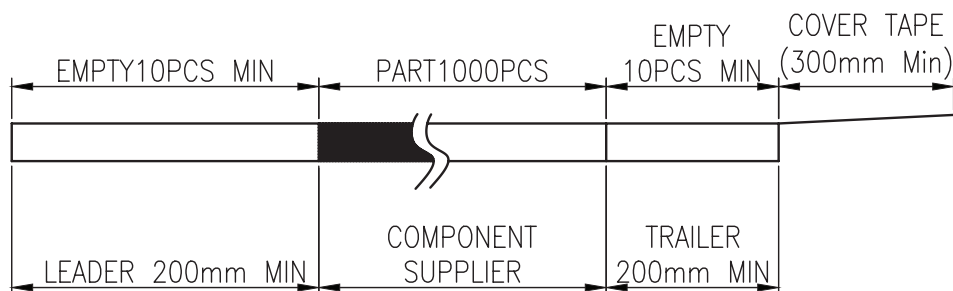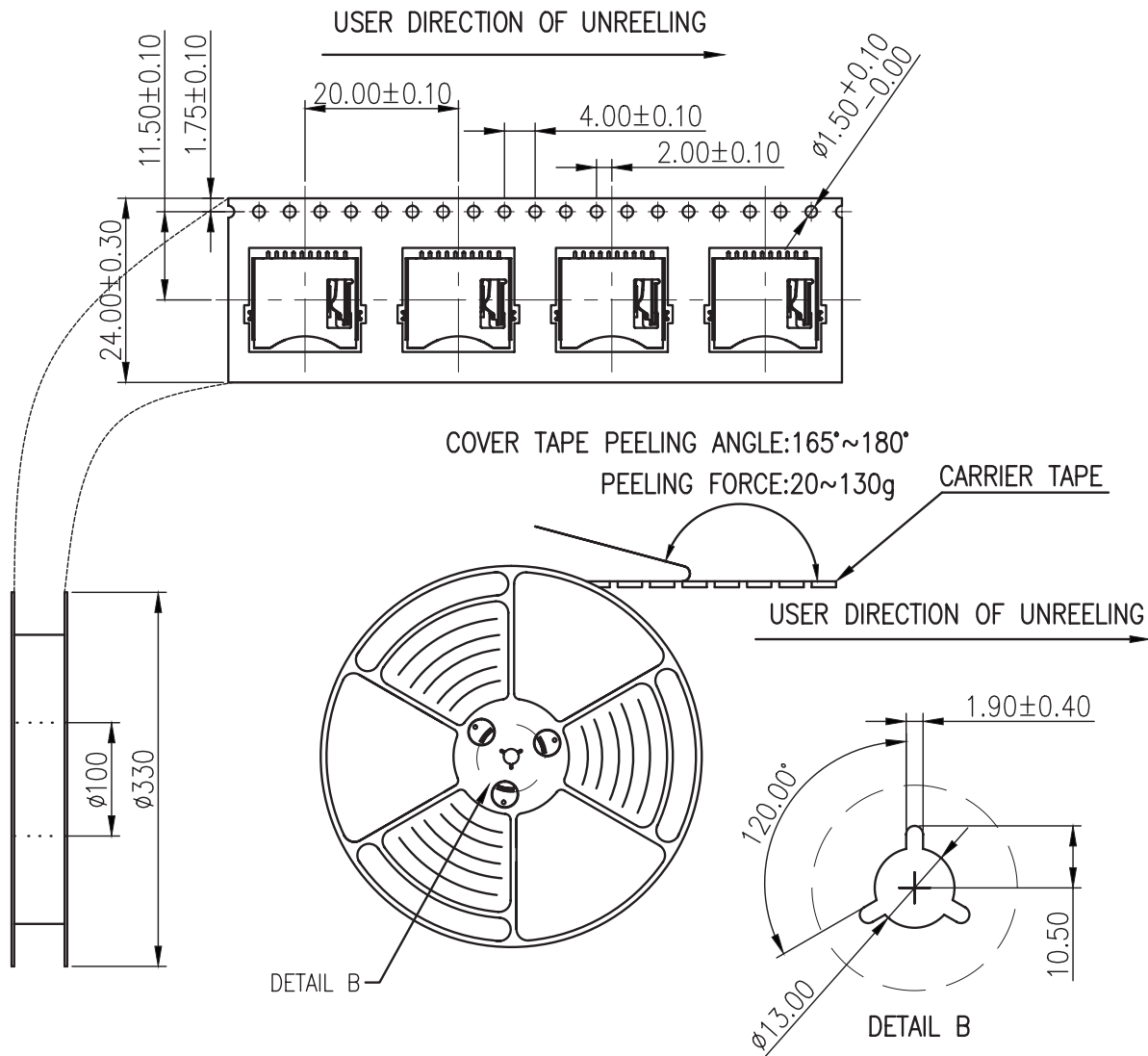
REVISION HISTORY

rev.	description	date
1.0	initial release	10/24/2023
1.01	missing dimension added	12/21/2023
1.02	added dimension to PCB layout	05/06/2024
1.03	CUI Devices rebranded to Same Sky	09/12/2024
1.04	updated drawing	01/17/2025

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