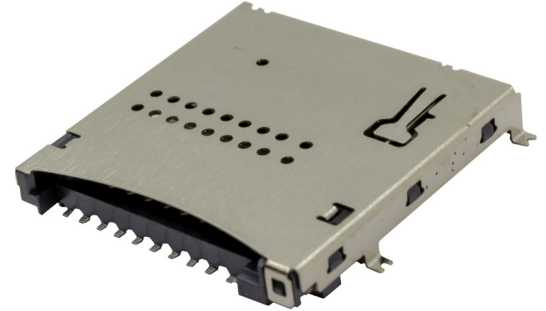


**MODEL:** MSD7-1-A | **DESCRIPTION:** MICRO SD 7.1 CARD CONNECTOR**FEATURES**

- micro SD 7.1 card connector
- push in, auto-eject out
- card detect switch
- surface mount
- 23 pin
- 2.25 mm profile

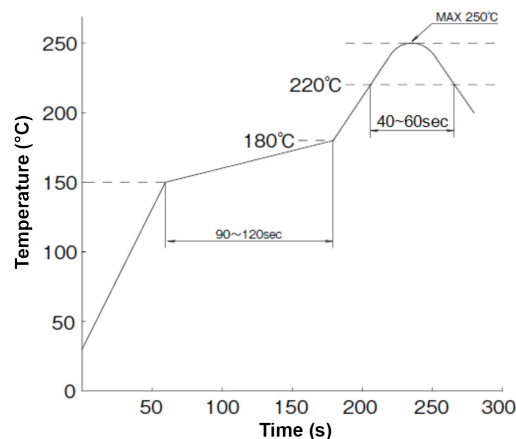
**SPECIFICATIONS**

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		500		Vac
insertion force	at a rate of 25 mm/min			40	N
withdrawal force	at a rate of 25 mm/min	0.5		40	N
life			5,000		cycles
operating temperature		-25		85	°C
flammability rating	UL94V-0				
RoHS	yes				

Note: 1. When measured at 20 mV / 100 mA.

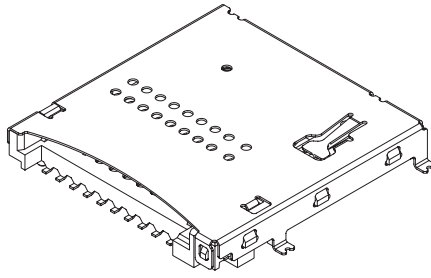
SOLDERABILITY

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

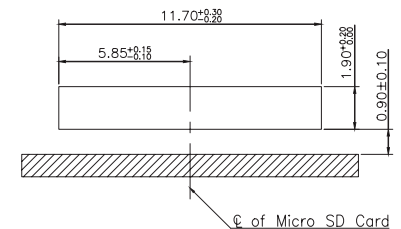
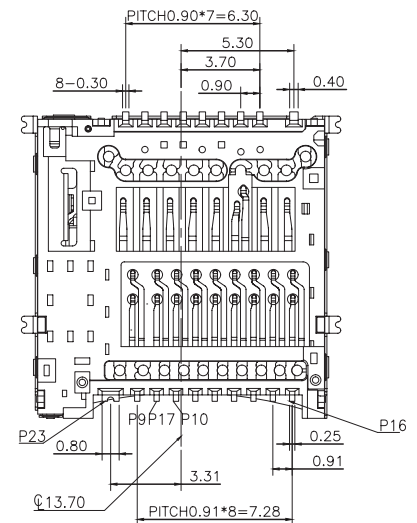
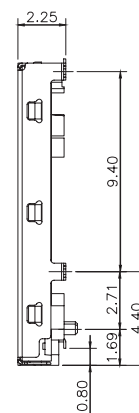
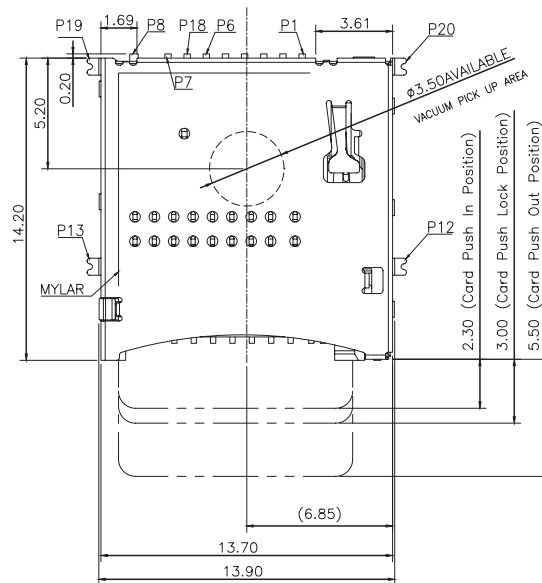
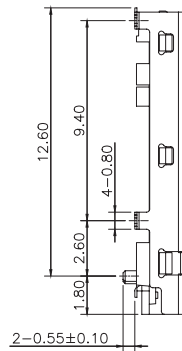
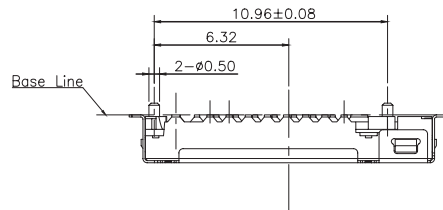


MECHANICAL DRAWING

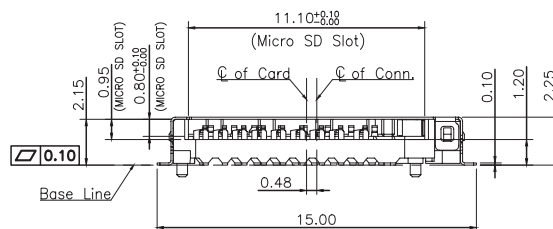
units: mm
 tolerance:
 X.X ± 0.35 mm
 X.XX ± 0.20 mm
 X.XXX ± 0.10 mm
 unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
housing	LCP 232 (UL94V-0)	black
contact terminals	C7025 t=0.10 mm	contact area: 15 μ " min gold over 50 μ " min nickel solder area: 100 μ " min matte tin over 50 μ " nickel
cover	SUS304 t=0.10 mm	solder area: 50 μ " min nickel



Recommended ID Dimension

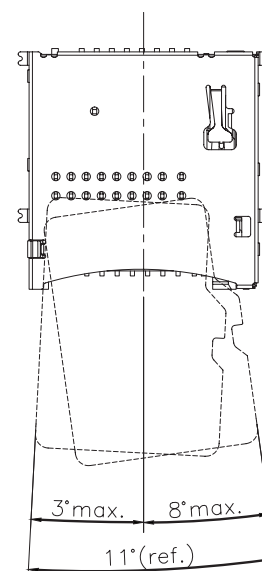


MECHANICAL DRAWING (CONTINUED)

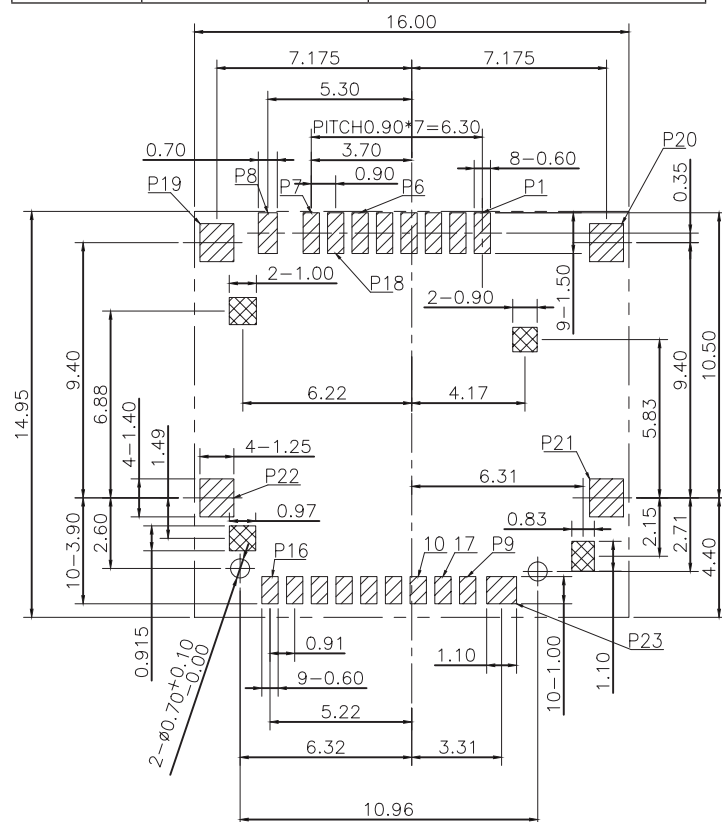
units: mm
PCB tolerance: ± 0.05 mm

PIN CONNECTIONS		
CONNECTOR PIN#	SIGNAL NAME	DESCRIPTION
P1	MICRO SD DAT2	DATA LINE (BIT 2)
P2	MICRO SD CD/DAT3	CARD DETECT / DATA LINE (BIT 3)
P3	MICRO SD CMD	COMMAND / RESPONSE
P4	MICRO SD VDD1	SUPPLY VOLTAGE (3.3 V)
P5	MICRO SD CLK	CLOCK
P6	MICRO SD VSS	SUPPLY VOLTAGE GROUND
P7	MICRO SD DAT0/RCLK+	DATA LINE (BIT 0)/RCLK+
P8	MICRO SD DAT1/RCLK-	DATA LINE (BIT 1)/RCLK-
P9	MICRO SD VDD2	SUPPLY VOLTAGE (1.8 V)
P10	MICRO SD VSS	SUPPLY VOLTAGE GROUND
P11	MICRO SD DO+	UHS-II DO+
P12	MICRO SD DO-	UHS-II DO-
P13	MICRO SD VSS	SUPPLY VOLTAGE GROUND
P14	MICRO SD D1-	UHS-II D1-
P15	MICRO SD D1+	UHS-II D1+
P16	MICRO SD VSS	SUPPLY VOLTAGE GROUND
P17	MICRO SD SWID	SINGLE WIRE PROTOCOL INTERFACE
P18	MICRO SD CD	CARD DETECT
P19-P23	GND	COVER GROUND

CARD STATUS		
WITHOUT CARD	HALF INSERTION	CARD INSERTED



Card Insertion Guide Angle

Recommended PCB Layout
Top View

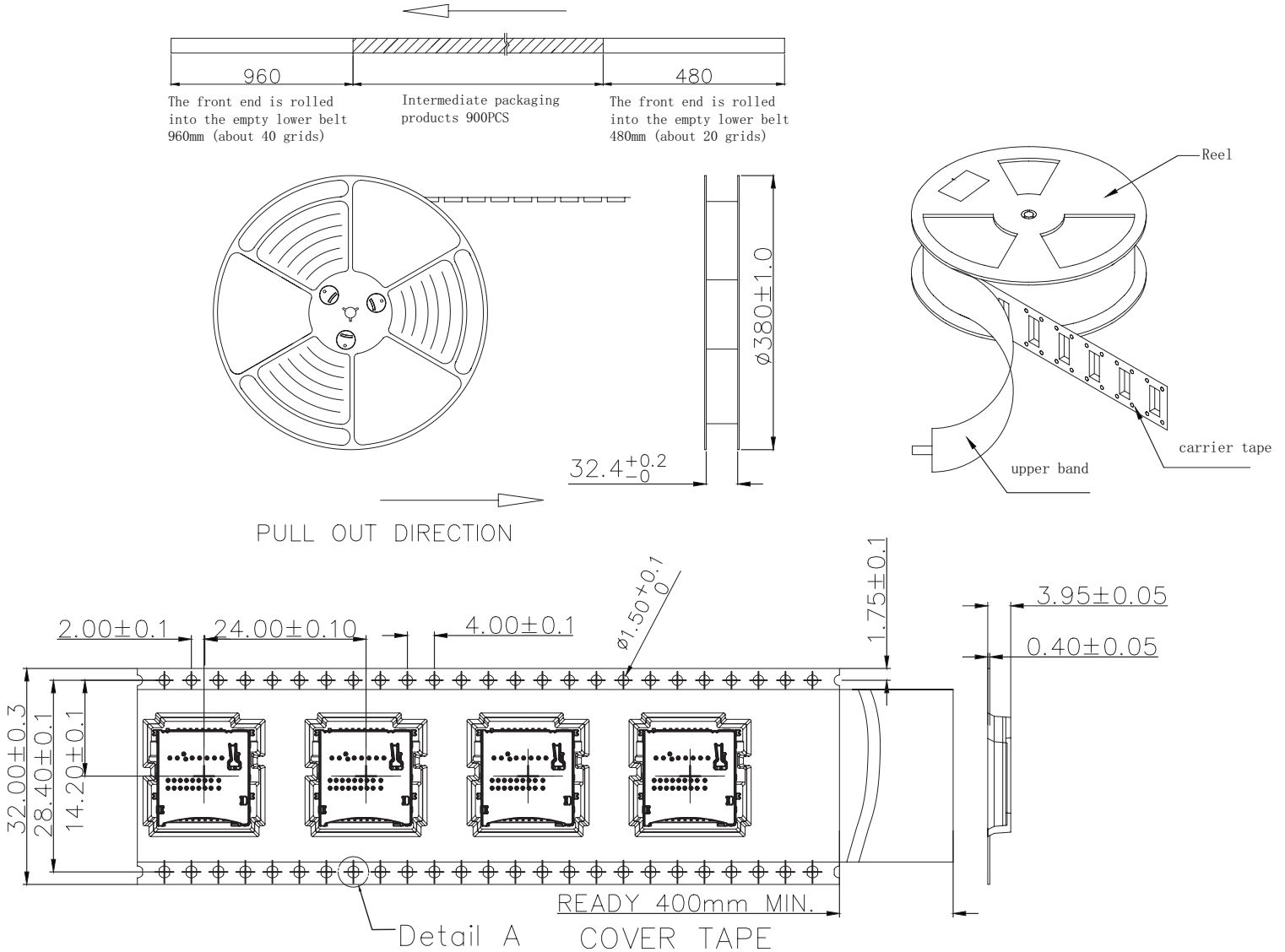
- Pad Area
- OTHER COMPONENT KEEPOUT AREA
- RED GLUING AREA

PACKAGING

units: mm

Reel Size: $\varnothing 380$ mm

Reel QTY: 900 pcs per reel



REVISION HISTORY

rev.	description	date
1.0	initial release	05/15/2025

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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