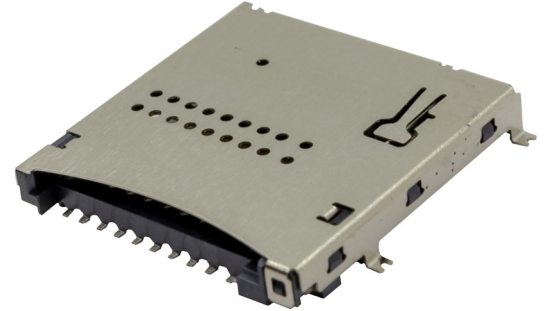


**MODEL:** MSD7-1-A | **DESCRIPTION:** MICRO SD 7.1 CARD CONNECTOR**FEATURES**

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

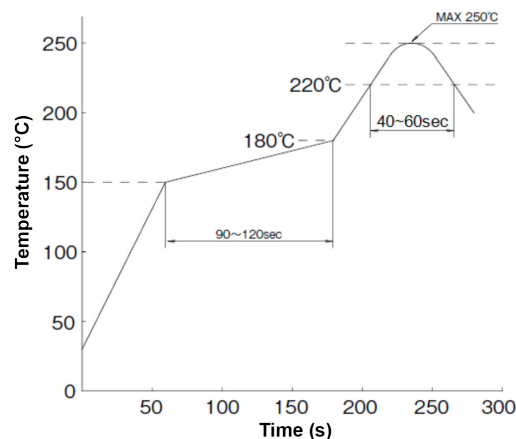
**SPECIFICATIONS**

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

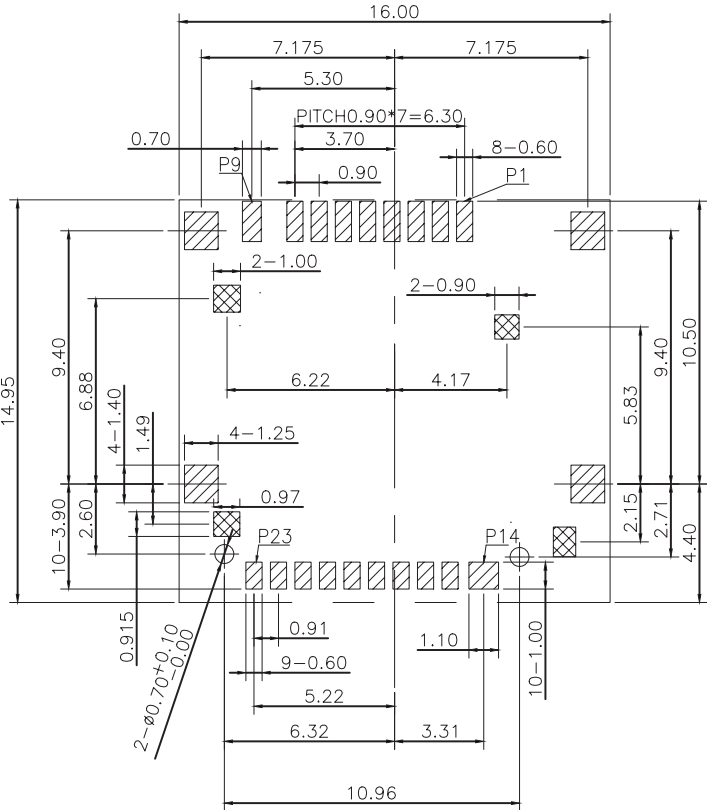


MECHANICAL DRAWING (CONTINUED)

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 SWIO	SINGLE WIRE PROTOCOL INTERFACE
P18	MICRO SD CD	CARD DETECT
P19-P23	GND	COVER GROUND

CARD STATUS		
WITHOUT CARD	HALF INSERTION	CARD INSERTED
		



Recommended PCB Layout
Top View

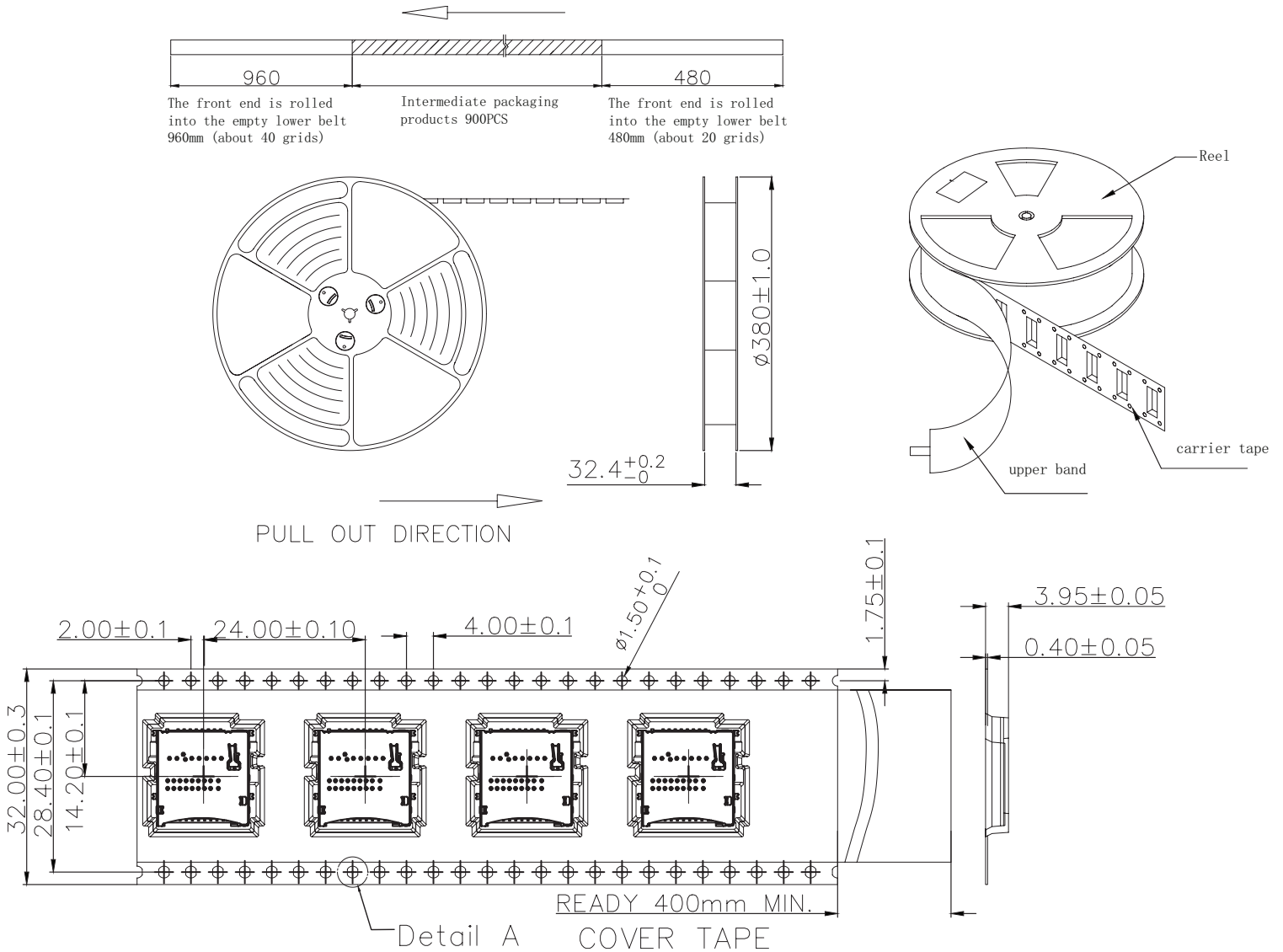
-  Pad Area
-  OTHER COMPONENT KEEPOUT AREA
-  RED GLUING AREA

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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