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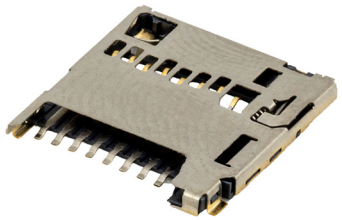
MODEL: MSD-18-A | DESCRIPTION: MICRO SD CARD CONNECTOR

FEATURES

- micro SD card connector
- 8 pin
- push in, auto eject out
- surface mount
- 1.28 mm profile



RoHS

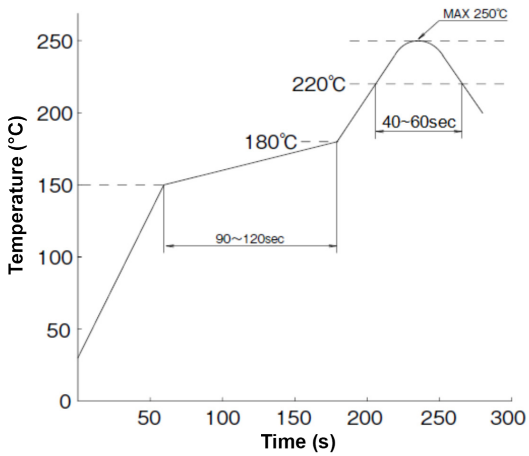
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage				12	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		Vdc
insertion force				40	N
withdrawal force		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.

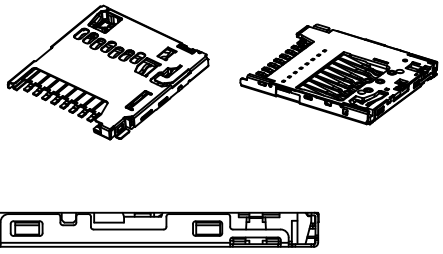
SOLDERABILITY

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

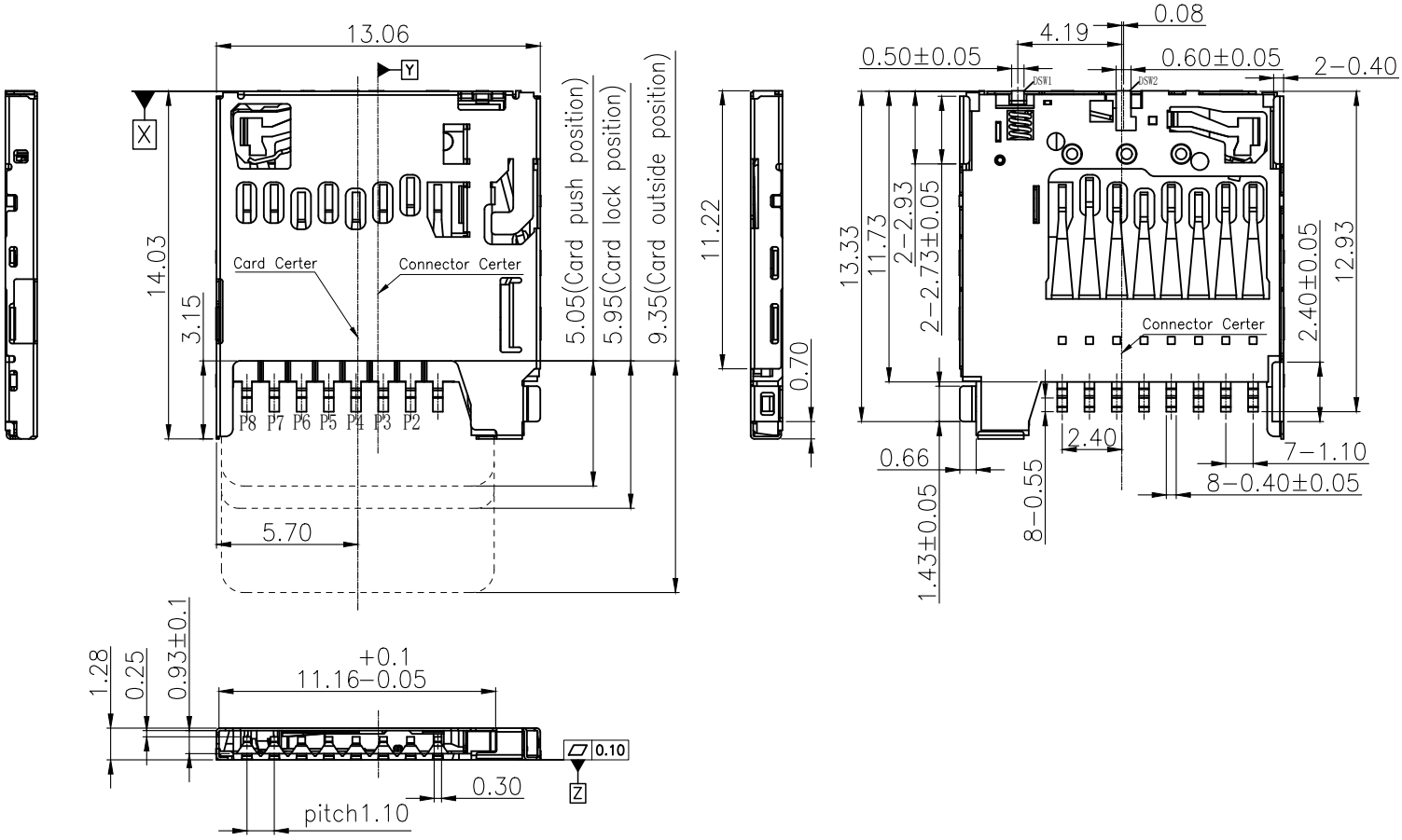


MECHANICAL DRAWING

units: mm
tolerance:
X.X ±0.35 mm
X.XX ±0.25 mm
X.XXX ±0.10 mm
unless otherwise specified



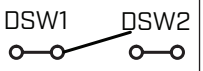
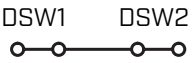
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	LCP (UL94V-0)	black
contact terminals	phosphor bronze t=0.15 mm	contact area: 1 μ" gold over 80 μ" nickel solder area: 1 μ" gold over 80 μ" nickel
shell	SUS301 t=0.10 mm	1 μ" min gold over 50 μ" nickel
spring	SUS301	---
slider	PA9T (UL94V-0)	black
drawbar	SUS304	

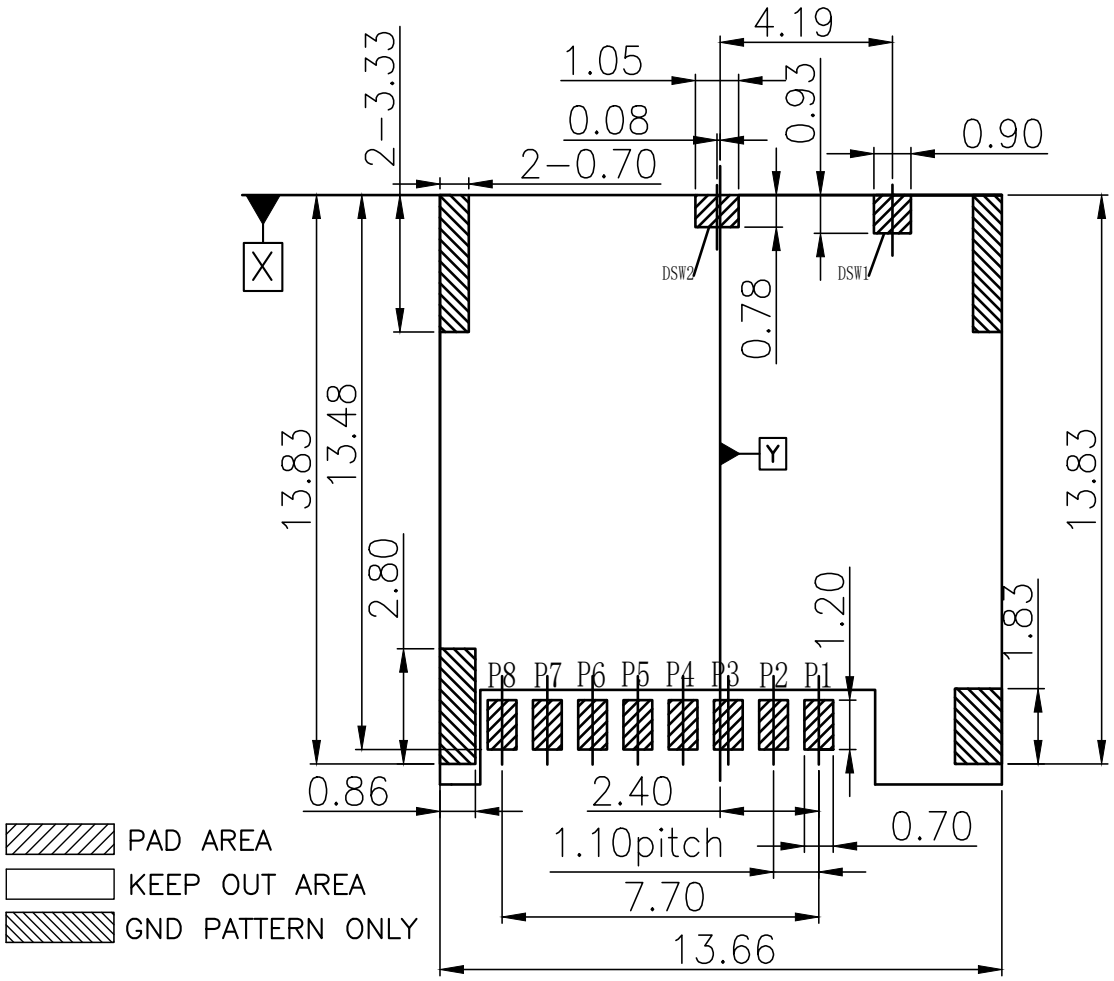


MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm

PIN CONNECTIONS		
PIN	SIGNAL NAME	DESCRIPTION
P1	DAT2	DATA LINE (BIT 2)
P2	CD/DAT3	CARD DETECT / DATA LINE (BIT 3)
P3	CMD	COMMAND / RESPONSE
P4	VDD	SUPPLY VOLTAGE
P5	CLK	CLOCK
P6	VSS	SUPPLY VOLTAGE GROUND
P7	DAT0	DATA LINE (BIT 0)
P8	DAT1	DATA LINE (BIT 1)

CARD STATUS	
WITHOUT CARD	CARD INSERTED
	

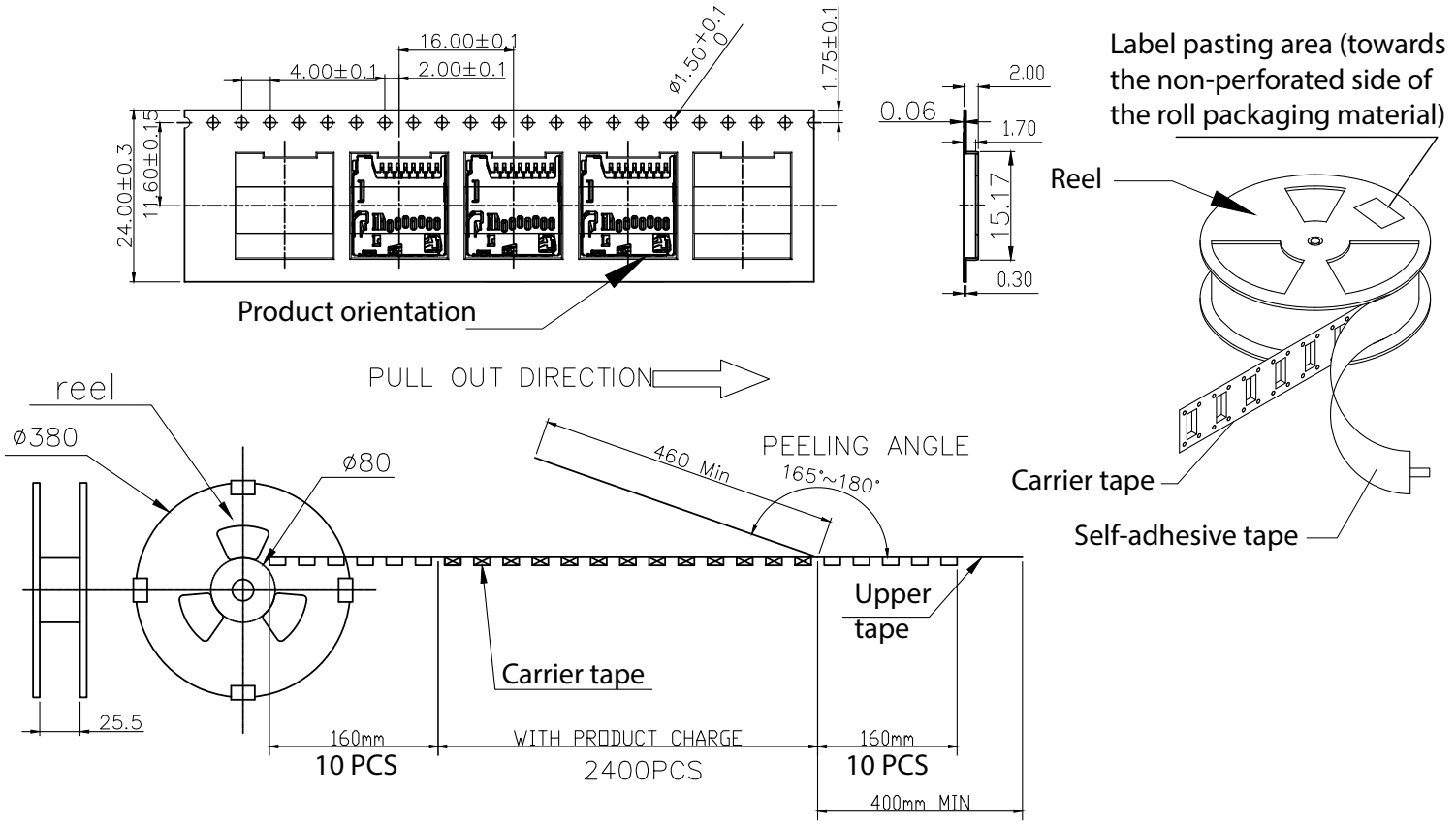


Recommended PCB Layout
Top View

PACKAGING

units: mm

Reel Size: Ø380 mm
Reel QTY: 2,400 pcs per reel



REVISION HISTORY

rev.	description	date
1.0	initial release	10/06/2026

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

same sky

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