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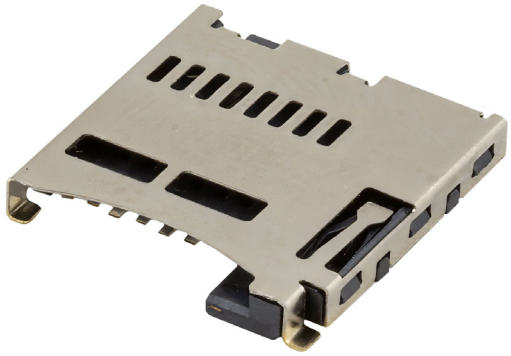
MODEL: MSD-16-A | DESCRIPTION: MICRO SD CARD CONNECTOR

FEATURES

- micro SD card connector
- 9 pins
- push in, auto eject out
- surface mount
- 1.95 mm profile



RoHS

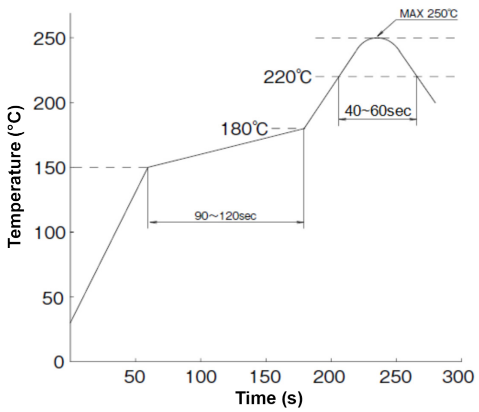
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage				10	Vdc
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				40	N
withdrawal force		5			N
life			10,000		cycles
operating temperature		-25		85	°C
flammability rating	UL94V-0				
RoHS	yes				

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

SOLDERABILITY

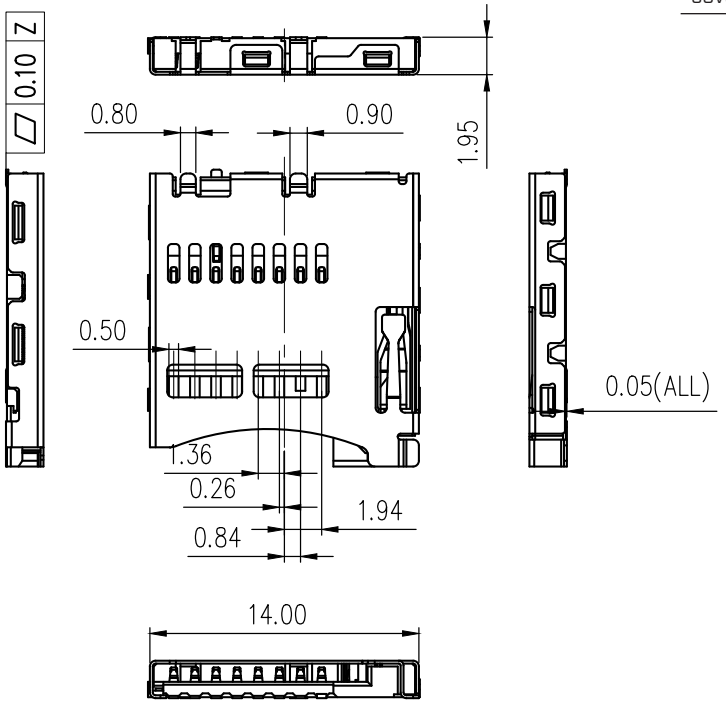
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity 40~70% reel opened: use within 1 month reel unopened: up to 15 month shelf life	16	22	28	°C
reflow soldering	see reflow profile			250	°C

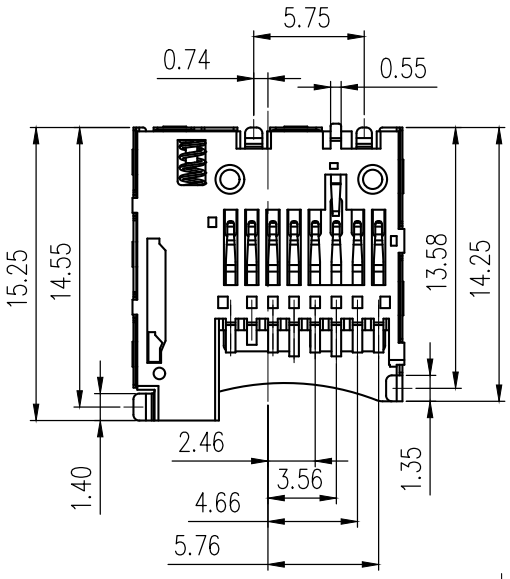


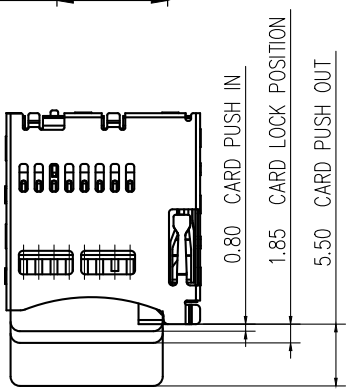
MECHANICAL DRAWING

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	contact area: gold flash over 40 µ" nickel solder area: gold flash over 40 µ" nickel
cover	stainless steel	20 µ" min nickel



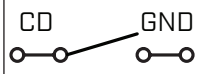


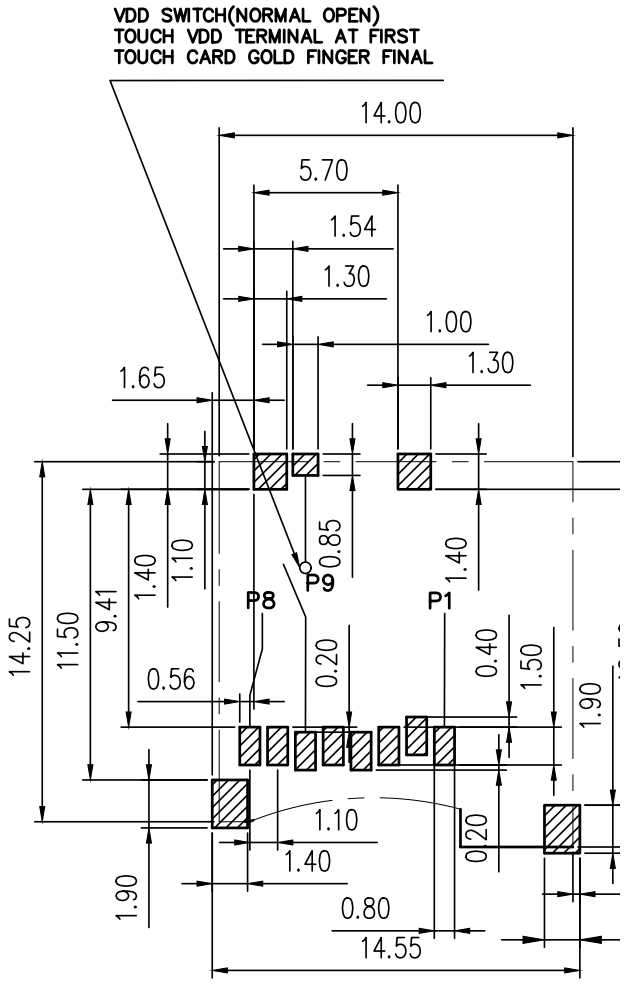


MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm

PIN CONNECTIONS			
PIN	SIGNAL NAME	TYPE	DESCRIPTION
P1	DAT2	I/O/PP	DATA LINE (BIT 2)
P2	CD/DAT3	I/O/PP	CARD DETECT / DATA LINE (BIT 3)
P3	CMD	PP	COMMAND / RESPONSE
P4	VDD	S	SUPPLY VOLTAGE
P5	CLK	I	CLOCK
P6	VSS	S	SUPPLY VOLTAGE GROUND
P7	DAT0	I/O/PP	DATA LINE (BIT 0)
P8	DAT1	I/O/PP	DATA LINE (BIT 1)
P9			CARD DETECT SWITCH
GND			

CARD STATUS	
WITHOUT CARD	CARD INSERTED
	

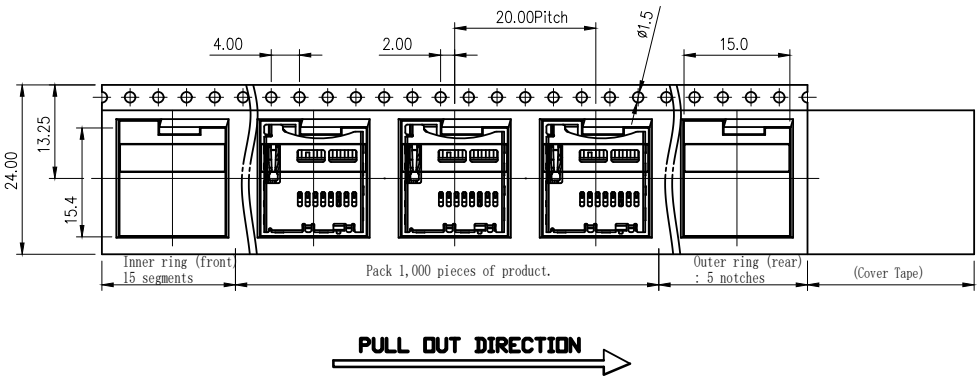


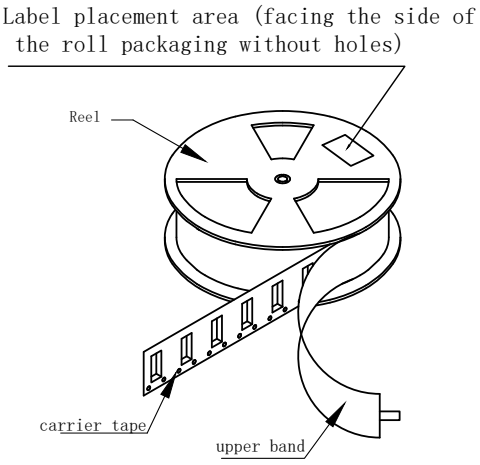
Recommended PCB Layout
Top View

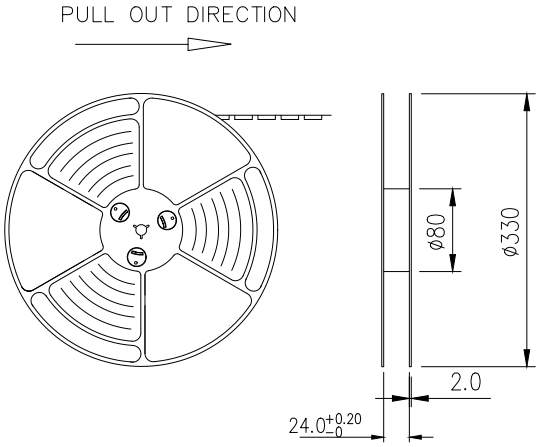
PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 1,000 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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