

**MODEL:** SD7-5-A | **DESCRIPTION:** SD 7.0 CARD CONNECTOR**FEATURES**

- SD 7.0 card connector
- push in, auto-eject out
- card detect switch
- write protect
- surface mount
- 18 pin
- 2.9 mm profile

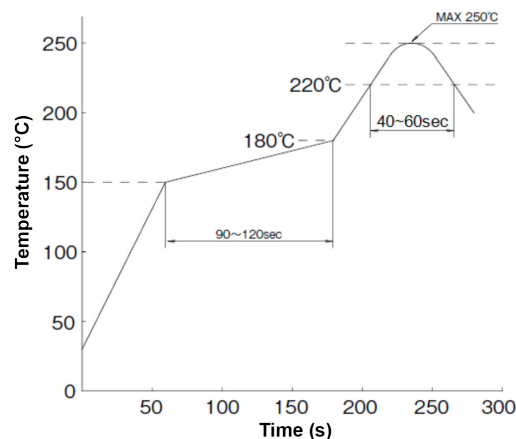
**SPECIFICATIONS**

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.

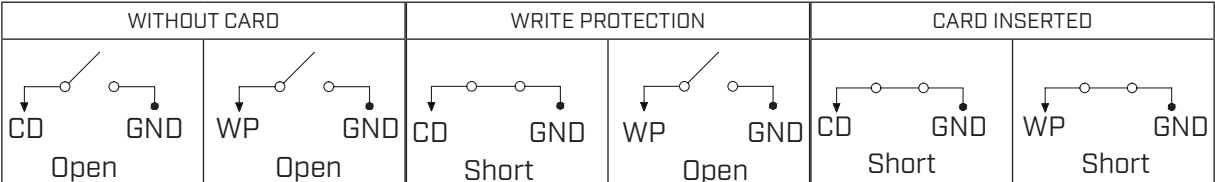
SOLDERABILITY

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



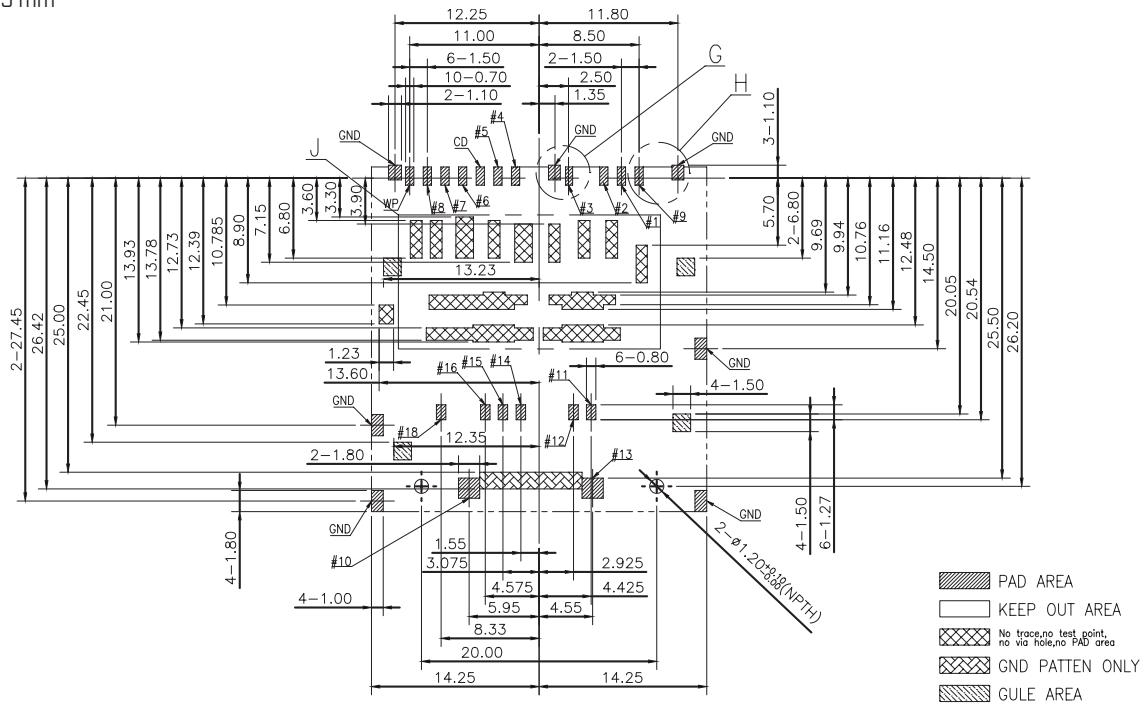
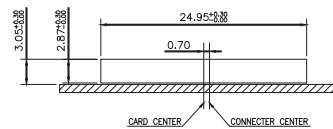
MECHANICAL DRAWING (CONTINUED)

PIN CONNECTIONS						
CONNECTOR PIN#	SD MODE		UHS-II MODE		SD EXPRESS MODE	
	SIGNAL NAME	DESCRIPTION	SIGNAL NAME	DESCRIPTION	SIGNAL NAME	DESCRIPTION
P1	CD/DAT3	CARD DETECT/DATA LINE [BIT 3]	-	NOT USED	PERST#	PE-RESET IS A FUNCTIONAL RESET
P2	CMD	COMMAND/RESPONSE	-	NOT USED	-	NOT USED
P3	VSS1	SUPPLY VOLTAGE GROUND	VSS1	SUPPLY VOLTAGE GROUND	VSS1	SUPPLY VOLTAGE GROUND
P4	VDD	SUPPLY VOLTAGE	VDD1	SUPPLY VOLTAGE (3.3 V)	VDD1	SUPPLY VOLTAGE (3.3 V)
P5	CLK	CLOCK	-	NOT USED	-	NOT USED
P6	VSS2	SUPPLY VOLTAGE GROUND	VSS2	SUPPLY VOLTAGE GROUND	VSS2	SUPPLY VOLTAGE GROUND
P7	DAT0	DATA LINE [BIT 0]	RCLK+	RCLK+	REFCLK+	REFCLK+
P8	DAT1	DATA LINE [BIT 1]	RCLK-	RCLK-	REFCLK-	REFCLK-
P9	DAT2	DATA LINE [BIT 2]	-	NOT USED	CLKREQ#	REFERENCE CLOCK REQUEST SIGNAL. ALSO USED BY L1 PM SUB- STATES
P10	-	NOT USED	VSS3	SUPPLY VOLTAGE GROUND	VSS3	SUPPLY VOLTAGE GROUND
P11	-	NOT USED	DD+	DIFFERENTIAL DATA 0+	PCle TX+	PCle TX+
P12	-	NOT USED	DD-	DIFFERENTIAL DATA 0-	PCle TX-	PCle TX-
P13	-	NOT USED	VSS4	SUPPLY VOLTAGE GROUND	VSS4	SUPPLY VOLTAGE GROUND
P14	-	NOT USED	VDD2	SUPPLY VOLTAGE (1.8 V)	VDD2	SUPPLY VOLTAGE (1.8 V)
P15	-	NOT USED	D1-	DIFFERENTIAL DATA 1-	PCle RX-	PCle RX-
P16	-	NOT USED	D1+	DIFFERENTIAL DATA 1+	PCle RX+	PCle RX+
P17	-	NOT USED	VSS5	SUPPLY VOLTAGE GROUND	VSS5	SUPPLY VOLTAGE GROUND
P18	-	NOT USED	-	NOT USED	VDD3	SUPPLY VOLTAGE (1.2 V)-TBD
CD	CD	CARD DETECT	CD	CARD DETECT	CD	CARD DETECT
WP	WP	WRITE PROTECT	WP	WRITE PROTECT	WP	WRITE PROTECT

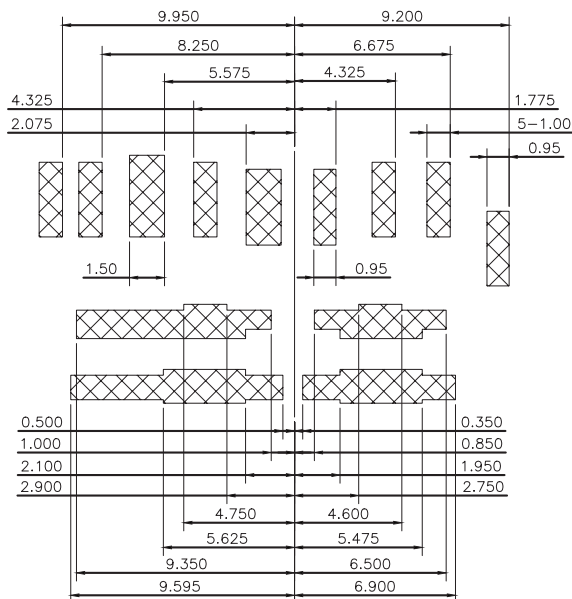
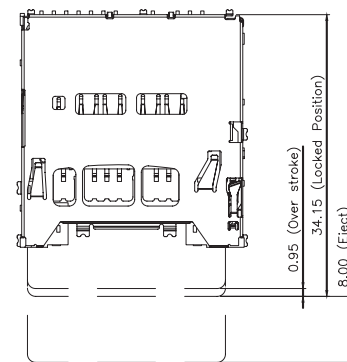


MECHANICAL DRAWING (CONTINUED)

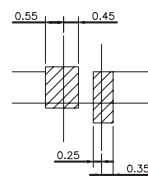
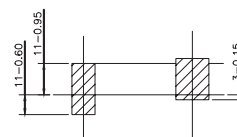
units: mm

PCB tolerance: ± 0.05 mmRecommended PCB Layout
Top View

Recommended ID Dimension

DETAIL J
SCALE 2:1

Card Push State

DETAIL G
SCALE 4:1DETAIL H
SCALE 4:1

PACKAGING

REVISION HISTORY

rev.	description	date
1.0	initial release	05/13/2025

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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