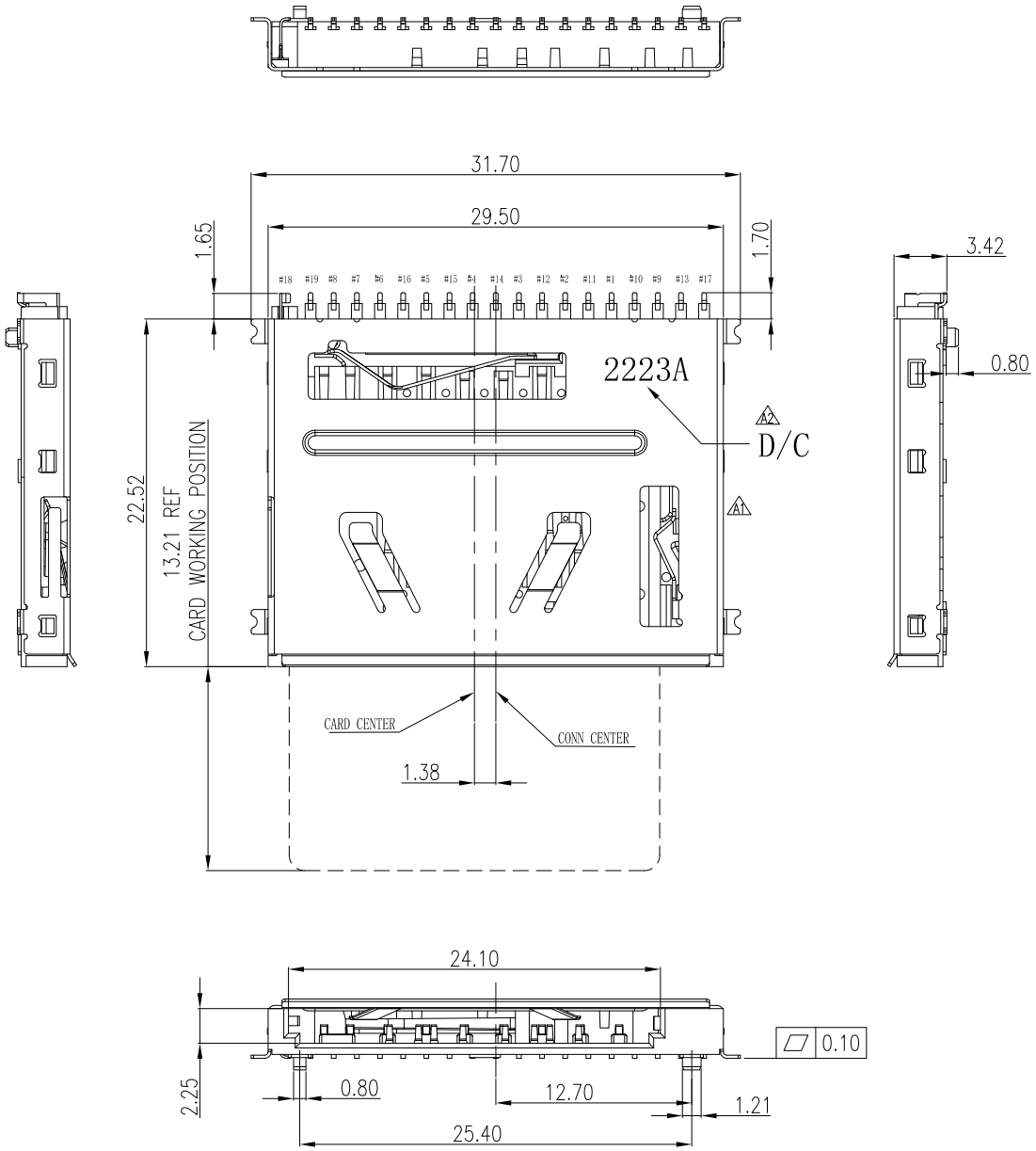
GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2021/12/24	Hanson
A1			Revise Exterior	2022/04/08	Hanson
A2			Add D/C	2022/08/25	Hanson



HEAVEN INTERNATIONAL INC.

TOLERANCE: X. ±0.50, X.X ±0.30, X.XX ±0.20, X.XXX ±0.10, ANGLE: ±2°	DESIGN BY : Hanson Huang	DATE : 2022/08/25	PART NAME: SD4.0 No Push H3.42mm	
	CHECKED BY: Janice Liu	DATE : 2022/08/25	PART NO.	MSD-02-03-40-HF
	APPROVED BY1: Richard Hsieh	DATE : 2022/08/25	MOLD NO.	NA
UNIT: mm [inch]	APPROVED BY2: Richard Hsieh	DATE : 2022/08/25	DRAW NO.	
SCALE:1:1 SIZE:A4			SHEET NO.	1 OF 2

GP Component

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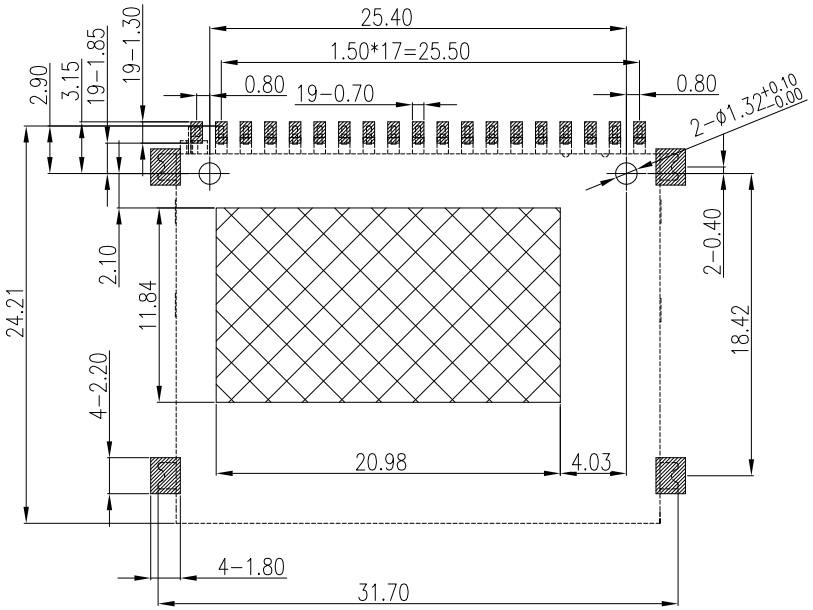

NOTES:
1.Operation Voltage :10V AC
2.Current rating:1.0A Max
3.Contact resistance:100mΩ MAX
4.Dielectric withstanding voltage:500V AC/1minute
5.Insulation resistance:1000MΩ min 500V DC
6.Opteration temperature:-20°C to 60°C
7.Storage temperature:-20°C to 70°C
8.Durability:5,000 CYCLES
9. MATERIAL:
HOUSING: HIGH TEMPERATURE PLASTIC UL94V-0
COLOR:GREY
CONTACT: COPPER ALLOY
SHELL: STAINLESS
10.PLATING:
10-1 CONTACT: 3u" min.GOLD PLATED ON CONTACT AREA
80u" min.TIN PLATING ON SOLDER TAIL AREA
50u" min.NICKEL UNDERPLATING OVERALL
10-2 SHELL :3u" min.GOLD PLATED ON SOLDER,30u" min. NICKEL PLATING OVERALL

MATRIX PART NO:

MSD-02-03-40-HF

- Matrix SD 4.0
- 01: Push / 02: Non-Push
- Plating: 01:G/F, 03:3u, 30:30u
- Series Number
- RS : ROHS / HF : Halogen Free

PIN#.	Pin Assignment			
	SD MODE		UHS II MODE	
P1	CD/DATA3	CARD DETECT/DATA LINE BIT2		NOT USED
P2	CMD	COMMAND/RESPONSE		NOT USED
P3	VSS1	SUPPLY VOLTAGE GROUND	VSS1	SUPPLY VOLTAGE GROUND
P4	VDD	SUPPLY VOLTAGE	VDD1	SUPPLY VOLTAGE (3.3V)
P5	CLK	CLOCK		NOT USED
P6	VSS2	SUPPLY VOLTAGE GROUND	VSS2	SUPPLY VOLTAGE GROUND
P7	DAT0	DATA LINE BIT0	RCLK+	
P8	DAT1	DATA LINE BIT1	RCLK-	
P9	DATA2	DATA LINE BIT2		
P10			VSS3	SUPPLY VOLTAGE GROUND
P11			D0+	DIFFERENTIAL DATA 0+
P12			D0-	DIFFERENTIAL DATA 0-
P13			VSS4	SUPPLY VOLTAGE GROUND
P14			VDD2	SUPPLY VOLTAGE (1.8V)
P15			D1-	DIFFERENTIAL DATA 1-
P16			D1+	DIFFERENTIAL DATA 1+
P17			VSS5	SUPPLY VOLTAGE GROUND
P18	CD	CARD DETECT	CD	CARD DETECT
P19	WP	WRITE PROTECT	WP	WRITE PROTECT

Circuit Diagram for CARD Detect/Write Protect Switch

CARD DETECT	GND — 18# (CARD OUT)	GND — 18# (CARD INSERT)
WRITE PROTECT	19# — GND (CARD OUT)	19# — GND (WRITE ENABLE)

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SCALE:1:1 SIZE:A4	APPROVED BY2: Richard Hsieh	DATE : 2022/08/25	DRAW NO.
			SHEET NO. 2 OF 2