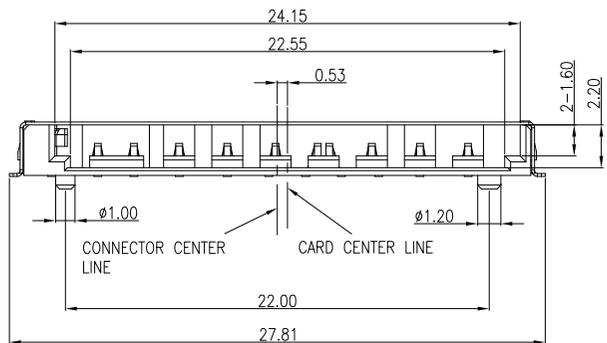
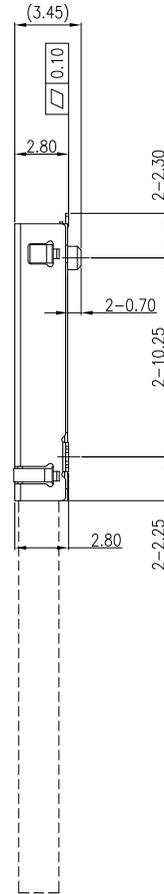
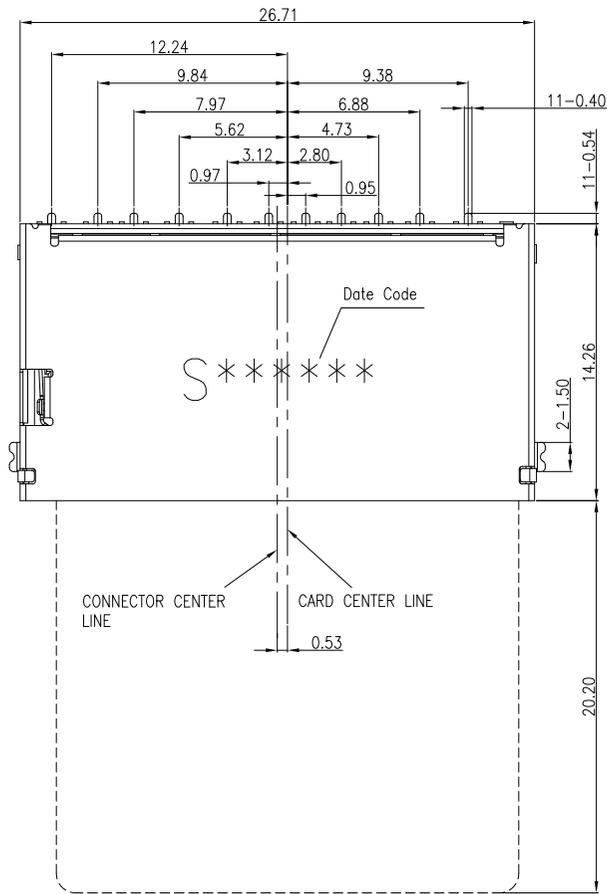


GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/03/01	Hanson
A0.1			Change Mating Cycles	2023/04/11	Hanson



Specification

*Electrical Characteristics:

Contact Current Rating:0.5 Amperes.
 Dielectric Withstanding Voltage:AC500V r.m.s.
 Insulation Resistance:1000 MΩ Minimum.
 Contact Resistance:100 mΩ Maximum.

*Environmental:

Operating Temperature:-20°C~+85°C.

*Environmental:

⚠ Mating Cycles: 5,000

*Mechanical Characteristics:

Contact Insertion Force:1.00kgf Maximum.
 ⚠ Contact Separation Force:0.10kgf Minimum.

*Material:

Insulator:HI-Temp Plastic UL 94V-0 Black
 Contact:Copper Alloy(t=0.15mm).
 Shell:Stainless Steel(t=0.15mm).

*FINISH:

CONTACT: 1u" min.GOLD PLATED ON CONTACT AREA
 80u" min.TIN(MATTE) PLATING ON
 SOLDER TAIL AREA
 50u" min.NICKEL UNDERPLATING OVERALL
 SHELL :80u" min. NICKEL PLATING OVERALL

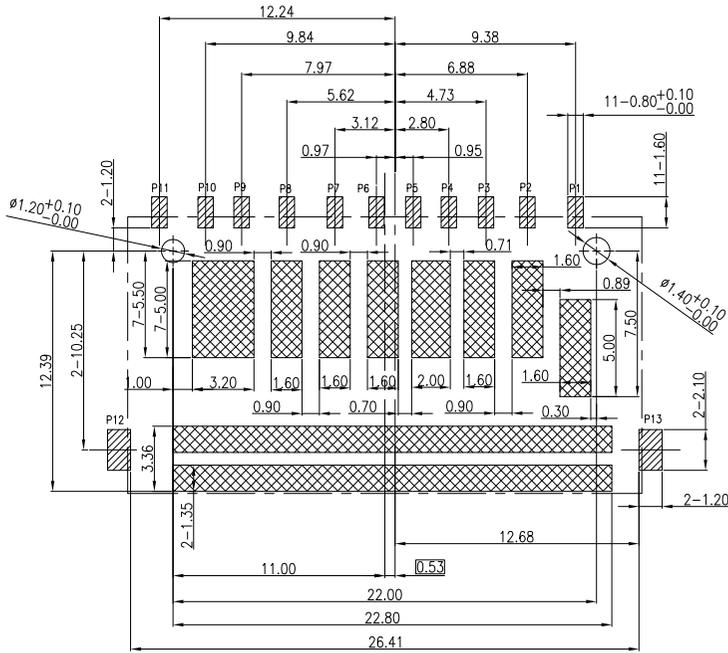


Matrix Electronics Co.,Ltd

TOLERANCE: X:X ±0.30 X:XX ±0.20 X:XXX ±0.10 ANGLE: ±5°	DESIGN BY : Hanson Huang	DATE : 2023/04/11	PART NAME: SD NON-PUSH CARD	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: vicky hsieh	DATE : 2023/04/11	PART NO.	MSD-02-01-47-HF
	APPROVED BY1: Richard Hsieh	DATE : 2023/04/11	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2023/04/11	DRAW NO.	
			SHEET NO.	1 OF 2

GP Component

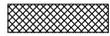
REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/03/01	Hanson
A0.1			Change Mating Cycles	2023/04/11	Hanson



RECOMMEND P.C.B LAYOUT
TOLERANCE ± 0.05



PAD



No trace , no test point,
no via hole, no ground area

WITHOUT CARD		CARD INSERTED:LOCK		CARD INSERTED:UNLOCK	
W/P	GND	W/P	GND	W/P	GND
C/D	VSS1	C/D	VSS1	C/D	VSS1

MATRIX PART NO:

MSD-02-01-47-HF

Matrix SD

01: Push

02: Non-Push

Plating

01:G/F

RS:ROHS

HF:Halogen Free

Series Number

Pin Define

Connector Pin No.	SD Card Pin No.	Pin Define
P1	P9	DAT2
P2	P1	DAT3
P3	P2	CMD
P4		CD
P5	P3	VSS1
P6	P4	VDD
P7	P5	CLK
P8	P6	VSS2
P9	P7	DAT0
P10	P8	DAT1
P11		W/P
P12~P13		GND



Matrix Electronics Co.,Ltd

TOLERANCE: X.X X.XX ± 0.30 X.XXX ± 0.20 X.XXX ± 0.10 ANGLE: $\pm 5^\circ$	DESIGN BY : Hanson Huang	DATE : 2023/04/11	PART NAME: SD NON-PUSH CARD	
	CHECKED BY: vicky hsieh	DATE : 2023/04/11	PART NO.	MSD-02-01-47-HF
	APPROVED BY1: Richard Hsieh	DATE : 2023/04/11	MOLD NO.	NA
UNIT: mm [inch]	APPROVED BY2: Richard Hsieh	DATE : 2023/04/11	DRAW NO.	
SCALE:1:1 SIZE:A4			SHEET NO.	2 OF 2