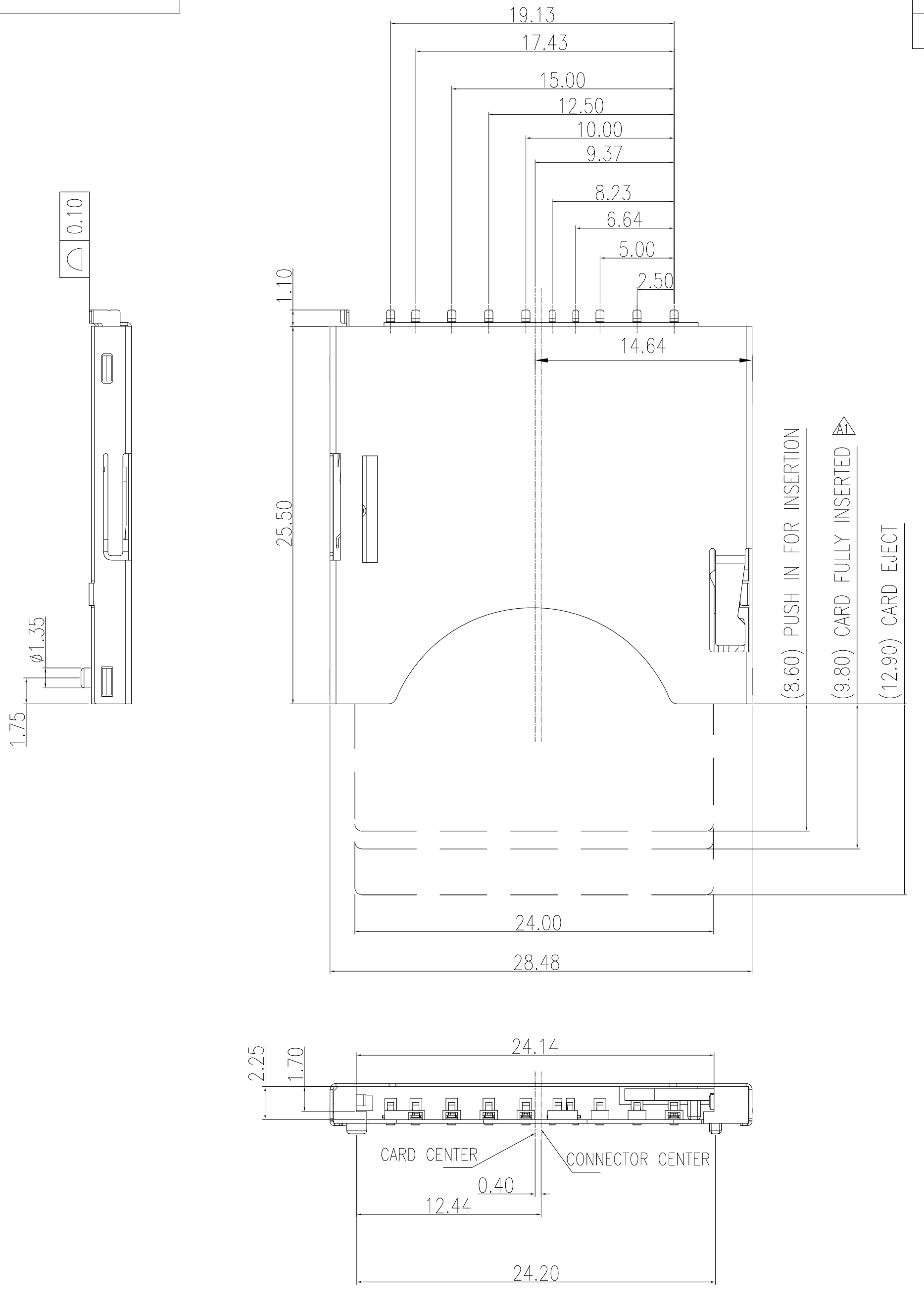
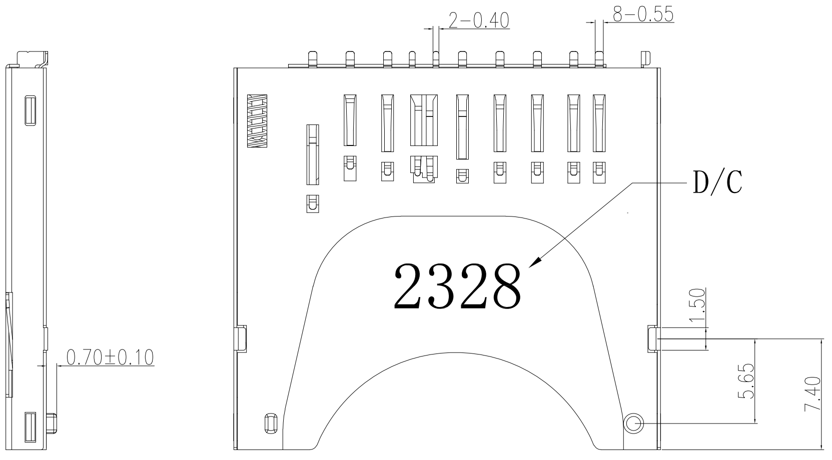
**GP Component**

| REV. | ECN NO. | LOCATIONS | DESCRIPTION | DATE | DESIGN |
|---|---|---|---|---|---|
| A0 | | | Initial | 2021/02/14 | Hanson |
| A1 | | | Change DIM. | 2022/03/08 | Hanson |





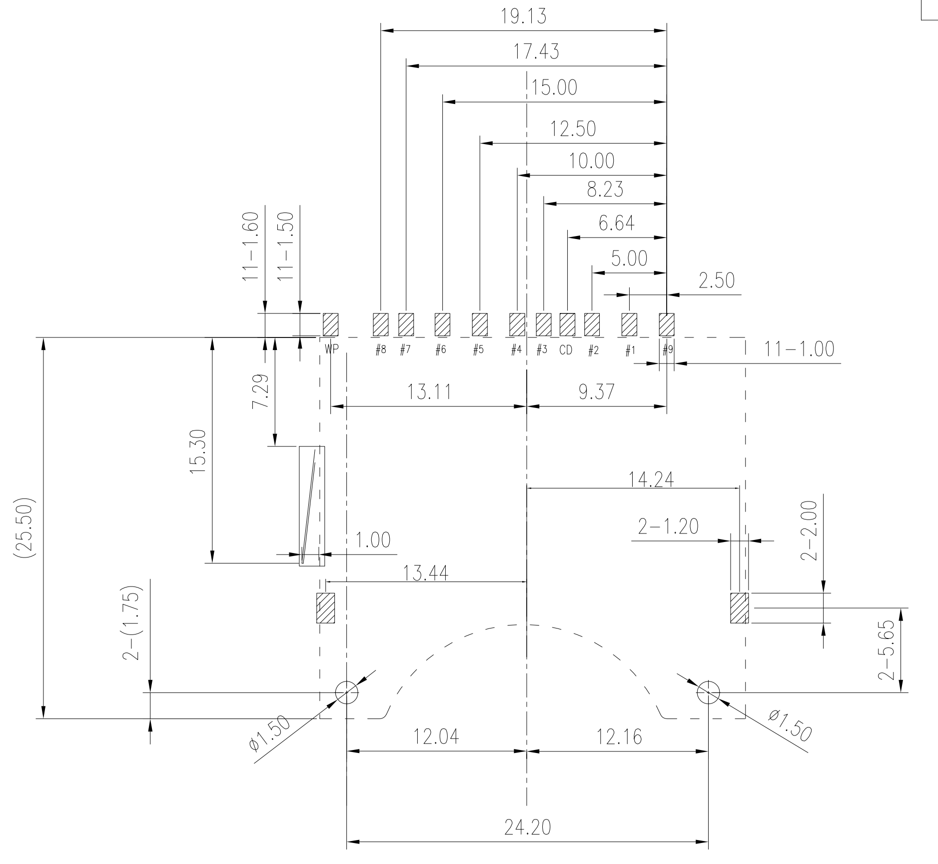
NOTE:
1. MATERIAL:
   HOUSING: HIGH TEMPERATURE PLASTIC UL94V-0
   COLOR:BLACK
   CONTACT: COPPER ALLOY
   SHELL: SUS304
2. PLATING :
   TERMINAL:
   CONTACT AREA: GOLD FLASH.
   SOLDER AREA: MATTE TIN PLATED.
   UNDER PLATE: NICKEL.
   SHELL: NICKEL PLATED OVER ALL.
   SOLDER AREA: GOLD FLASH.
3. PART MUST COMPLY ROHS SPECIFICATION

Matrix Electronics Co.,Ltd

| | | | | |
|---|---|---|---|---|
| TOLERANCE:<br>X.<br>X.X ±0.30<br>X.XX ±0.20<br>X.XXX ±0.10<br>ANGLE: ±3° | DESIGN BY :<br>Hanson Huang | DATE :<br>2022/03/08 | PART NAME:<br>SD PUSH-PUSH CARD | |
| | CHECKED BY:<br>vicky hsieh | DATE :<br>2022/03/08 | PART NO. | MSD-01-01-43-RS |
| | APPROVED BY1:<br>Richard Hsieh | DATE :<br>2022/03/08 | MOLD NO. | NA |
| UNIT: mm [inch] | APPROVED BY2:<br>Richard Hsieh | DATE :<br>2022/03/08 | DRAW NO. | |
| SCALE:1:1 SIZE:A4 | | | SHEET NO. | 1 OF 2 |

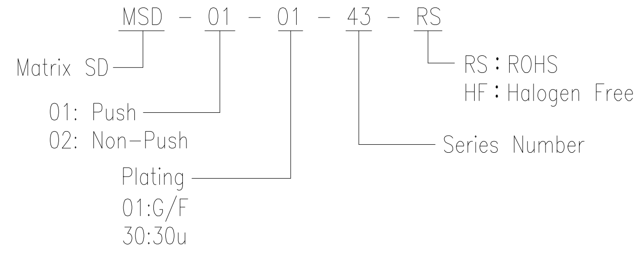
# GP Component

| REV. | ECN NO. | LOCATIONS | DESCRIPTION | DATE | DESIGN |
|---|---|---|---|---|---|
| A0 | | | Initial | 2021/02/14 | Hanson |
| A1 | | | Change DIM. | 2022/03/08 | Hanson |

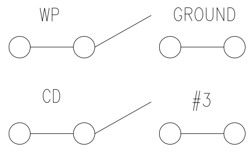


## P.C.B LAYOUT

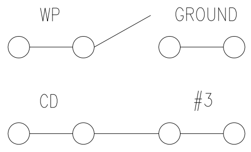
MATRIX PART NO:



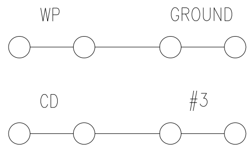
## CIRCUIT



WITHOUT CARD



CARD INSERTED WRITE
PROJECT:LOCK



CARD INSERTED WRITE
PROJECT:UNLOCK

## SD CARD PIN DESIGN

| PIN NO. | NAME | TYPE | DESCRIPTION |
|---|---|---|---|
| #1 | CD/DAT3 | I/O/PP | CARD DETECT/DATA LINE(BIT3) |
| #2 | CMD | PP | COMMAND/RESPONSE |
| #3 | VSS1 | S | SUPPLY VOLTAGE GROUND |
| #4 | VDD | S | SUPPY VOLTAGE |
| #5 | CLK | I | CLOCK |
| #6 | VSS2 | S | SUPPLY VOLTAGE GROUND |
| #7 | DAT0 | I/O/PP | DATA LINE(BIT 0) |
| #8 | DAT1 | I/O/PP | DATA LINE(BIT 1) |
| #9 | DAT2 | I/O/PP | DATA LINE(BIT 2) |

## Matrix Electronics Co.,Ltd

| | | | | |
|---|---|---|---|---|
| TOLERANCE:<br>X.<br>X.X ±0.30<br>X.XX ±0.20<br>X.XXX ±0.10<br>ANGLE: ±3° | DESIGN BY :<br>Hanson Huang | DATE :<br>2022/03/08 | PART NAME: | SD PUSH-PUSH CARD |
| | CHECKED BY:<br>vicky hsieh | DATE :<br>2022/03/08 | PART NO. | MSD-01-01-43-RS |
| | APPROVED BY1:<br>Richard Hsieh | DATE :<br>2022/03/08 | MOLD NO. | NA |
| UNIT: mm [inch] | APPROVED BY2:<br>Richard Hsieh | DATE :<br>2022/03/08 | DRAW NO. | |
| SCALE:1:1 SIZE:A4 | | | SHEET NO. | 2 OF 2 |