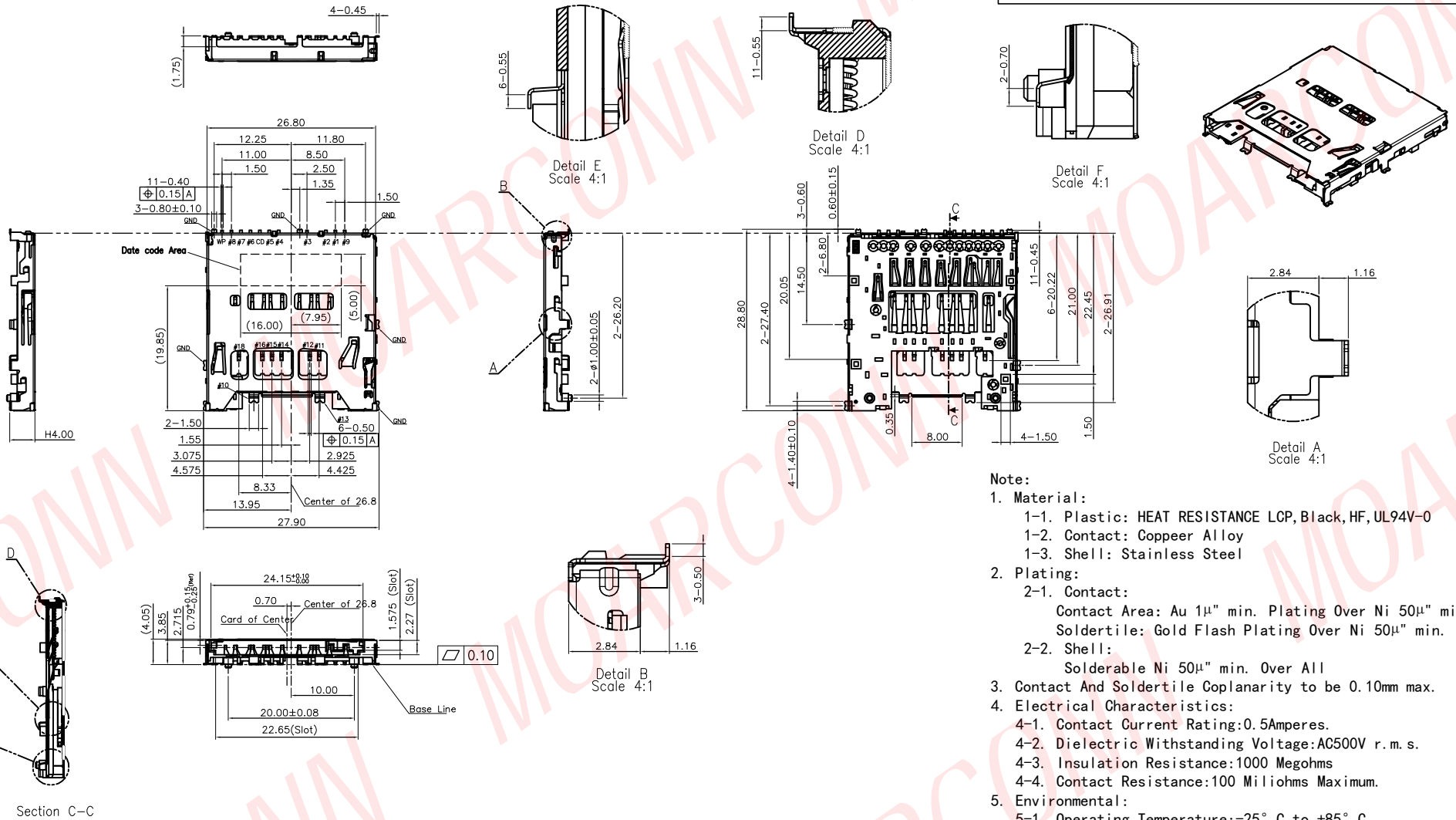


All materials, plating and process meet HF requirements.



- Note:**
- Material:**
    - 1-1. Plastic: HEAT RESISTANCE LCP, Black, HF, UL94V-0
    - 1-2. Contact: Copper Alloy
    - 1-3. Shell: Stainless Steel
  - Plating:**
    - 2-1. Contact:  
Contact Area: Au 1μ" min. Plating Over Ni 50μ" min.  
Solderable: Gold Flash Plating Over Ni 50μ" min.
    - 2-2. Shell:  
Solderable Ni 50μ" min. Over All
  - Contact And Solderable Coplanarity to be 0.10mm max.**
  - Electrical Characteristics:**
    - 4-1. Contact Current Rating: 0.5Amperes.
    - 4-2. Dielectric Withstanding Voltage: AC500V r.m.s.
    - 4-3. Insulation Resistance: 1000 Megohms
    - 4-4. Contact Resistance: 100 Miliohms Maximum.
  - Environmental:**
    - 5-1. Operating Temperature: -25° C to +85° C.
    - 5-2. Salty spray: 48H

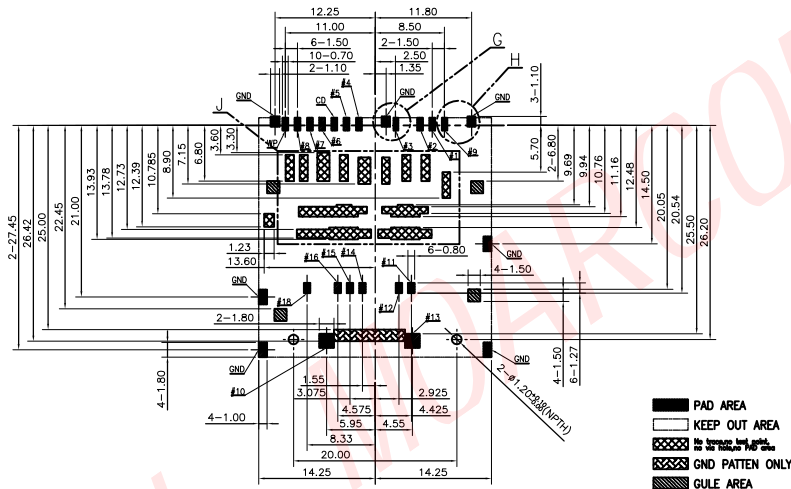
**MOARCONN**  
MORE CONNECTIONS SMART FUTURE

**DONG GUAN MOARCONN ELECTRONIC Co., Ltd.**

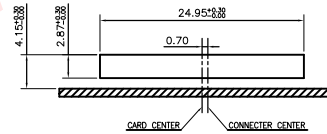
|   |  |                   |                     |
|---|--|-------------------|---------------------|
| DIMENSIONS INIT: mm<br>UNLESS OTHERWISE SPECIFIABLE<br>DIMENSION TOLERANCE<br>X.X: ± 0.35<br>X.XX: ± 0.20<br>X.XXX: ± 0.10<br>ANGULAR: ± 2' | PRODUCT NAME :<br>SD 7.0 H4.0 SMT Push-Push          | DRAWING:<br>Aaron | DATE:<br>2022.12.01 |
|   | PRODUCT NO. :<br>SD400-T1251-01                      | CHECK:            | DATE:               |
|   | DRAWING NO. :<br>D-SD400-T1251-01                    | APPROVED:         | DATE:               |
|   | SCALE: 1:1<br>DWG ID: C D<br>REV.: A<br>PAGE: 1 OF 2 |                   |                     |

|              |         |             |       |            |
|--------------|---------|-------------|-------|------------|
| A            | ----    | NEW RELEASE | Aaron | 2022.12.01 |
| REVISION NO. | ECR NO. | DESCRIPTION | MARK  | DATE       |
| 1            |         |             |       |            |
| 2            |         |             |       |            |
| 3            |         |             |       |            |

All materials, plating and process meet HF requirements.



RECOMMENDED PCB LAYOUT (TOP VIEW)  
TOLERANCE UNLESS OTHERWISE SPEC  $\pm 0.05$

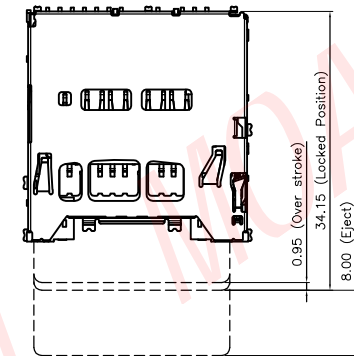
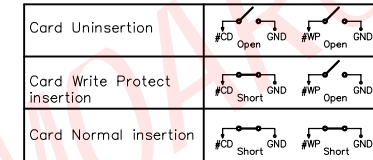


RECOMMENDED ID DIMENSION

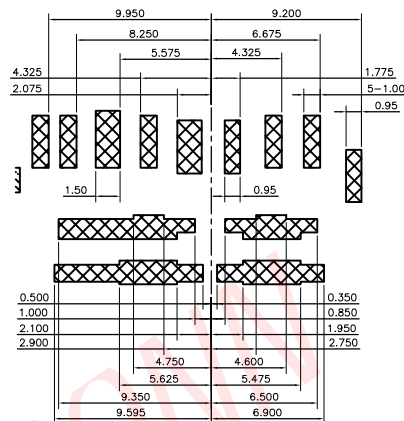
Pin Assignment

| Pin# | SD Mode | UHS II Mod | SD Express | CD Pin# | SD Mode | UHS II Mod | SD Express    | Card |
|------|---------|------------|------------|---------|---------|------------|---------------|------|
| #1   | CD/DAT3 |            | PERST#     | #11     | D0+     |            | PCIe_Tx+      |      |
| #2   | CMD     |            |            | #12     | D0-     |            | PCIe_Tx-      |      |
| #3   | VSS1    | VSS1       | VSS1       | #13     | VSS4    | VSS4       |               |      |
| #4   | VDD     | VDD1       | VDD1       | #14     | VDD2    | VDD2       |               |      |
| #5   | CLK     |            |            | #15     | D1-     |            | PCIe_Rx-      |      |
| #6   | VSS2    | VSS2       | VSS2       | #16     | D1+     |            | PCIe_Rx+      |      |
| #7   | DAT0    | RCLK+      | REFCLK+    | #17     | VSS5    | VSS5       |               |      |
| #8   | DAT1    | RCLK-      | REFCLK-    | #18     |         |            | VDD3          |      |
| #9   | DAT2    |            | CLKREQ#    | CD      |         |            | Card Detect   |      |
| #10  |         | VSS3       | VSS3       | WP      |         |            | Write Protect |      |

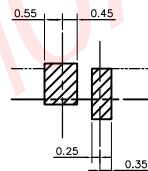
Function #10, #13, #17 were integrated into 2 pin in Mechanical design, and compares to the Layout would be (#10, #13)



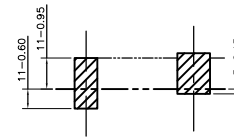
Card Push State



DETAIL J  
SCALE 2:1



DETAIL G  
SCALE 4:1



DETAIL H  
SCALE 4:1

|  |  |  |                   |                     |            |                 |
|--|--|--|-------------------|---------------------|------------|-----------------|
|  |  | <b>DONG GUAN MOARCONN ELECTRONIC Co., Ltd.</b> |                   |                     |            |                 |
|  |  | PRODUCT NAME :<br>SD 7.0 H4.0 SMT Push-Push    | DRAWING:<br>Aaron | DATE:<br>2022.12.01 |            |                 |
| DIMENSIONS INIT: mm<br>UNLESS OTHERWISE SPECIFIABLE  |  | PRODUCT NO. :<br>SD400-T1251-01                | CHECK:            | DATE:               |            |                 |
| DIMENSION TOLERANCE<br>X.X: $\pm 0.35$<br>X.XX: $\pm 0.20$<br>X.XXX: $\pm 0.10$<br>ANGULAR: $\pm 2'$ |  | DRAWING NO. :<br>D-SD400-T1251-01              | APPROVED:         | DATE:               |            |                 |
|  |  |  | SCALE:<br>1:1     | DWG ID:<br>C D      | REV.:<br>A | PAGE:<br>2 OF 2 |

|              |         |             |       |            |
|--------------|---------|-------------|-------|------------|
| A            | ----    | NEW RELEASE | Aaron | 2022.12.01 |
| REVISION NO. | ECR NO. | DESCRIPTION | MARK  | DATE       |
| 1            |         |             |       |            |