

| REV. | NOTES    | DATE       |
|------|----------|------------|
| 01   | RELEASED | 2022/01/01 |

NOTES:

1.MATERIAL:

- 1-1.DISPLAYPORT
- 1-1-1.HOUSING: LCP,UL94V-0,BLACK;
- 1-1-2.COVER: LCP,UL94V-0,BLACK;
- 1-1-3.CONTACTS: BRASS,T=0.20mm;
- 1-1-4.FRONT SHELL: STAINLESS STEEL, T=0.20mm;
- 1-1-5.BACK SHELL: STAINLESS STEEL, T=0.25mm;
- 1-1-6.INNER SHELL: STAINLESS STEEL, T=0.40mm;
- 1-2.HDMI RECEPTACLE
- 1-2-1.HOUSING: LCP,UL94V-0,BLACK;
- 1-2-2.COVER: LCP,UL94V-0,BLACK;
- 1-2-3.CONTACTS: BRASS,T=0.25mm;
- 1-2-4.HDMI SHELL: STAINLESS STEEL, T=0.50mm;

2.PLATING:

- 2-1.DISPLAYPORT
- 2-1-1 TERMINAL:
  - CONTACT AREA: Au 0.6u"
  - SOLDER TAIL: MATTE TIN 50u"
  - UNDER PLATED: NICKEL 50u"~100u"
- 2-1-2.FRONT SHELL: NICKEL 50u"
- 2-1-3.BACK SHELL: NICKEL 50u"
- 2-1-4.INNER SHELL: CLEANING

2-2.HDMI

- 2-2-1 TERMINAL:
  - CONTACT AREA: Au 0.6u"
  - SOLDER TAIL: MATTE TIN 50u"
  - UNDER PLATED: NICKEL 50u"~100u"
- 2-2-2.SHELL: NICKEL 50u"

3.MECHANICAL PERFORMANCE

- 3-1.MATING FORCE: 4.5kgf MAX
- 3-2.UNMATING FORCE: 1.0~4.0kgf MAX
- 3-3.DURABILITY: 10000 CYCLES

4.ELECTRICAL PERFORMANCE:

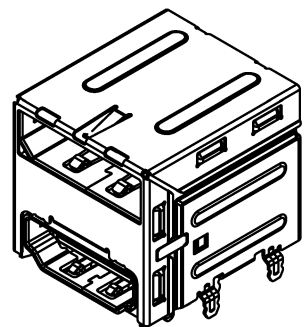
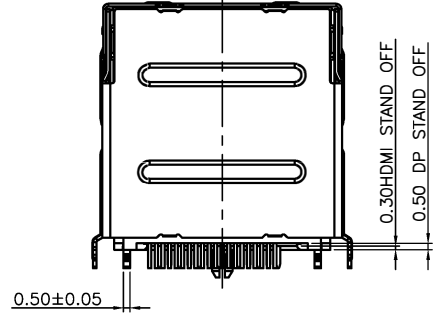
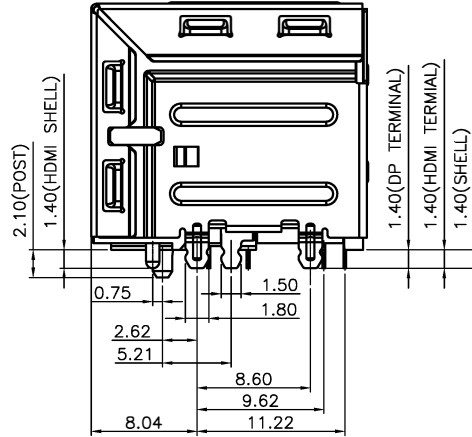
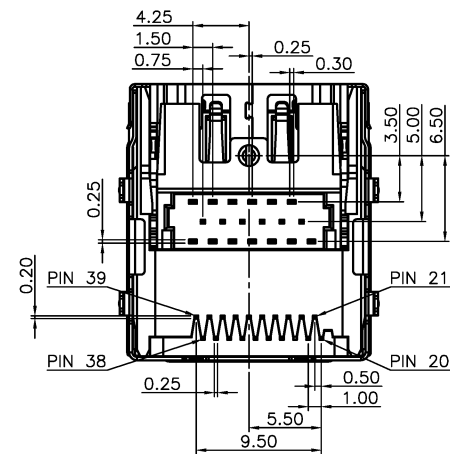
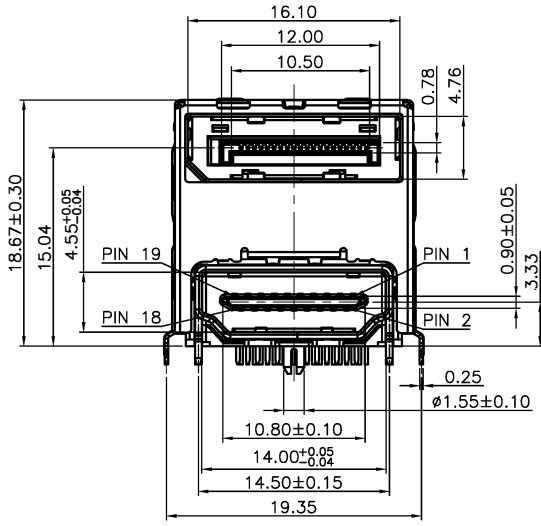
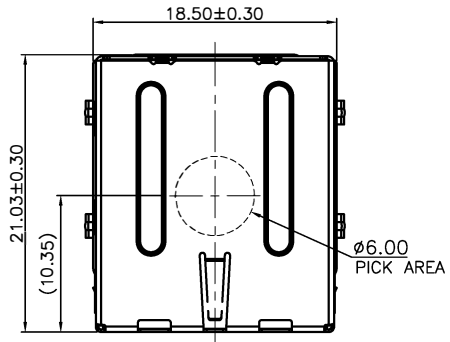
- 4-1.INSULATION RESISTANCE:
  - UNMATED 100MΩ MIN,MATED 10MΩ MIN.

- 4-2.DELECTIC WITHSTANDING VOLTAGE:
  - 500V AC MIN,MATED 300V AC MIN

5.HF COMPLIANT

6.IR REFLOW:

THE PEAK TEMPERATURE ON THE BOARD SHOULD BE MAINTAINED FOR 10 SECONDS AT 260±5°C



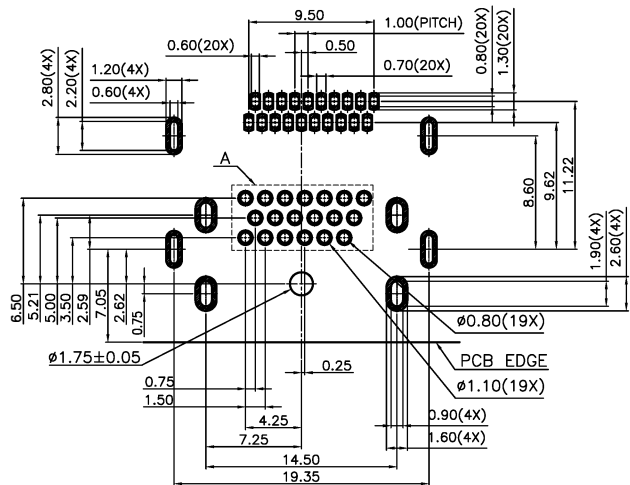
3D VIEW

| DIMENSIONS TOLERANCE METRIC |        |
|-----------------------------|--------|
| X                           | :±0.5  |
| X.X                         | :±0.38 |
| X.XX                        | :±0.25 |
| ANGLES                      |        |
| X                           | :±1°   |
| X.X                         | :±0.5° |

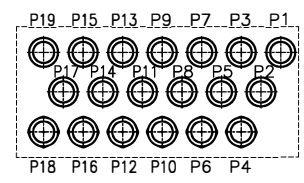
|            |          |
|------------|----------|
| 單位(UNITS)  | mm       |
| 數量(QT'Y)   | N/A      |
| 材料(MT'L)   | SEE NOTE |
| 處理(FINISH) | SEE NOTE |

|                             |     |                  |    |
|-----------------------------|-----|------------------|----|
| 東莞翊豐精密五金有限公司                |     |                  |    |
| 圖名(NAME)                    |     |                  |    |
| 双层DP+HDMI 2.1 板上中心15.04(B款) |     |                  |    |
| 料號(PART NUMBER)             |     | AADP+DH01B-LBA21 |    |
| 圖號(DRAW NUMBER)             |     |                  |    |
| 圖檔(FILE NAME .DWG)          |     |                  |    |
| 比例(SCALE)                   | 1/1 | 圖紙(SIZE)         | A4 |
| 頁次(SHEET)                   | 1/2 | 版次(REV.)         | 01 |

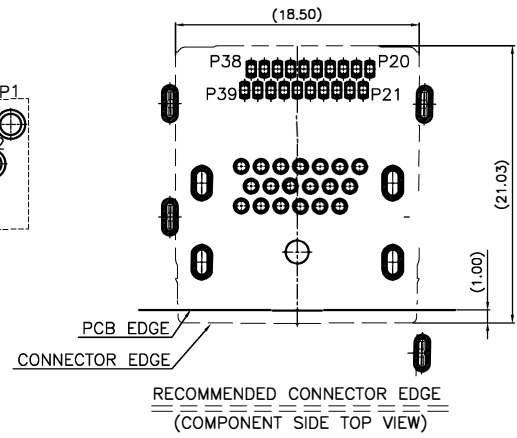
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RECOMMENDED DP& HDMI P.C.B LAYOUT(COMPONENT SIDE)  
THICKNESS=1.20±0.05 TOLERANCE: ±0.05



DETAIL A  
SCALE 4:1

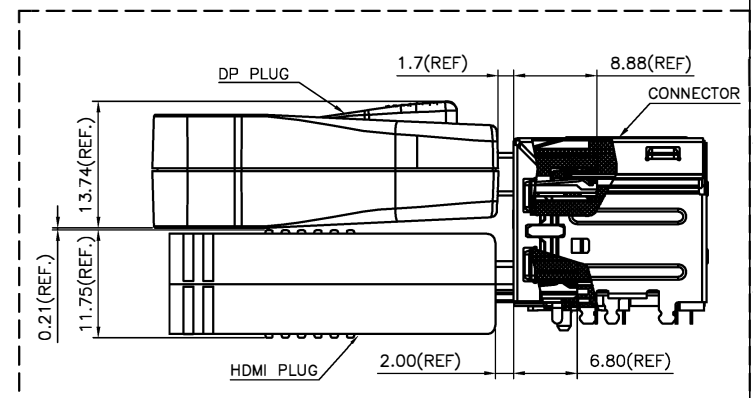


| HDMI PI N Signal Assignment |                   |                          |
|-----------------------------|-------------------|--------------------------|
| CATEGORY                    | 1,2PIN ASSIGNMENT | CATEGORY 3PIN ASSIGNMENT |
| 1                           | TMDS Data2+       | Data2+                   |
| 2                           | TMDS Data2 Shield | Data2 Shield             |
| 3                           | TMDS Data2-       | Data2-                   |
| 4                           | TMDS Data1+       | Data1+                   |
| 5                           | TMDS Data1 Shield | Data1 Shield             |
| 6                           | TMDS Data1-       | Data1-                   |
| 7                           | TMDS Data0+       | Data0+                   |
| 8                           | TMDS Data0 Shield | Data0 Shield             |
| 9                           | TMDS Data0-       | Data0-                   |
| 10                          | TMDS Clock+       | Clock+                   |
| 11                          | TMDS Clock Shield | Clock Shield             |
| 12                          | TMDS Clock-       | Clock                    |
| 13                          | CEC               | CEC                      |
| 14                          | Utility           | Utility                  |
| 15                          | SCL               | SCL                      |
| 16                          | SDA               | SDA                      |
| 17                          | DDC/CEC Ground    | DDC/CEC Ground           |
| 18                          | +5V Power         | +5V Power                |
| 19                          | Hot Plug Detect   | Hot Plug Detect          |
| Shell                       | Shield            | Shield                   |

| Displayport Connector Pin Assignment |                               |        |
|--------------------------------------|-------------------------------|--------|
| PI N Number                          | Signal Type                   | Notes: |
| 20                                   | I n/Out                       |        |
| 21                                   | GND                           |        |
| 22                                   | I n/Out                       |        |
| 23                                   | I n/Out                       |        |
| 24                                   | GND                           |        |
| 25                                   | I n/Out                       |        |
| 26                                   | I n/Out                       |        |
| 27                                   | GND                           |        |
| 28                                   | I n/Out                       |        |
| 29                                   | I n/Out                       |        |
| 30                                   | GND                           |        |
| 31                                   | I n/Out                       |        |
| 32                                   | CONFIG (see note)             |        |
| 33                                   | CONFIG (see note)             |        |
| 34                                   | I/O                           |        |
| 35                                   | GND                           |        |
| 36                                   | I/O                           |        |
| 37                                   | Out/I n                       |        |
| 38                                   | RTN                           |        |
| 39                                   | Power Out/PWR Out (see note2) |        |

1) Pin 32 and 33 must be connected to ground through a pull-down. External devices and cable assemblies must be designed to not rely on a low impedance ground path from these pins.

2) Pin 39,PWR Out,must provide +3.3 volts±10% with a maximum current of 500 mA and a minimum power capability of 1.5 watts.



|            |          |
|------------|----------|
| 單位(UNITS)  | mm       |
| 數量(QT'Y)   | N/A      |
| 材料(MT'L)   | SEE NOTE |
| 處理(FINISH) | SEE NOTE |

東莞翊豐精密五金有限公司  
圖名(NAME)  
双层DP+HDMI 2.1 板上中心15.04(B款)

| DIMENSIONS TOLERANCE METRIC |       |
|-----------------------------|-------|
| X                           | ±0.5  |
| X.X                         | ±0.38 |
| X.XX                        | ±0.25 |
| ANGLES                      |       |
| X                           | ±1°   |
| X.X                         | ±0.5° |

|           |  |                    |                  |
|-----------|--|--------------------|------------------|
| 繪圖(DRAW)  |  | 料號(PART NUMBER)    | AADP+DH01B-LBA21 |
| 設計(DE'N)  |  | 圖號(DRAW NUMBER)    |                  |
| 審校(CH'K)  |  | 圖檔(FILE NAME .DWG) |                  |
| 核准(APP'D) |  | 比例(SCALE)          | 1/1              |
|           |  | 圖紙(SIZE)           | A4               |
|           |  | 頁次(SHEET)          | 2/2              |
|           |  | 版次(REV.)           | 01               |