

| REV | ECN No.       | DATE       | REMARK                    |
|-----|---------------|------------|---------------------------|
| A   | NEW           | 2020.08.03 | NEW RELEASE               |
| B   | ECR231004-001 | 2023.10.04 | 优化产品结构满足自动机生产<br>和模具生产的需求 |

NOTE:

1.MATERIAL SPECIFICATION:

1-1.HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC(LCP),

UL94 V-0. COLOR:BLACK.

1-2.CONTACTS:COPPER ALLOY T=0.12mm

1-3.MID PLATE: STAINLESS STEEL(SUS301)T=0.15mm

1-4.SHELL: STAINLESS STEEL(SUS304)T=0.30mm

2.PLATING SPECIFICATION:

2-1.CONTACTS:

Ni: 50u" MIN. UNDER PLATED OVER ALL.

Au PLATED ON THE MATING AREA OF CONTACT.

(GOLD PLATING THICKNESS FOLLOW THE P/N)

G/F PLATED ON THE SOLDER AREA.

2-2.SHELL:

NI: 30u" MIN. UNDER PLATED OVER ALL.

2-3.MID PLATE:

CLEAR ONLY

3.MECHANICAL PERFORMANCE.

3-1.INSERTION FORCE: 0.5~2.0kgf.

3-2.EXTRACTION FORCE: 0.8kgf~2.0kgf.

0.6kgf~2.0kgf. AFTER DURABILITY TEST.

3-3.DURABILITY: 10000 CYCLES.

4.ELECTRICAL PERFORMANCE.

4-1. CURRENT RATING:5.0A

VOLTAGE RATING:5.0V/20V

4-2. LCLR: VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX.

SHIELD: 50mΩ/MAX

LCLR MAX. CHANGE OF ALL PINS: 10mΩ.

4-3.INSULATION RESISTANCE: 100MΩ MIN

4-4.DIELECTRIC WITHSTAND VOLTAGE:AC 100V FOR 1 MINUTE.

5. ENVIRONMENTAL PERFORMANCE:

OPERATING TEMPERATURE: -25℃~+85℃.

6.IR REFLOW:

THE PEAK TEMPERATURE ON THE BOARD SHALL

BE MAINTAINED FOR 10 SECONDS AT 260℃.

7.符合RoHS & 无铅要求

8. PART NUMBER CODE:(产品料号)

TC136-16 X X XX X - 01

包装要求:

CONTACTS PLATED:

1.2:接触面镀3u"其它GOLD FLASH

HOUSING COLOR:

B:BLACK

HOUSING MATERIAL:

L:LCP

HON YUAN

HON YUAN PRECISION IND. CO.,LTD.

SHENZHEN, CHINA, R.D.C.

USB TYPE C FEMALE 16PIN

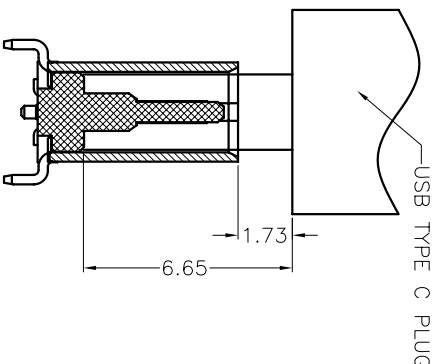
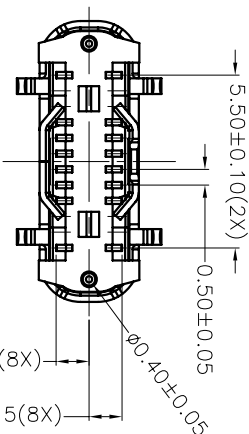
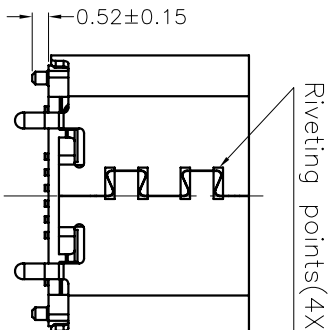
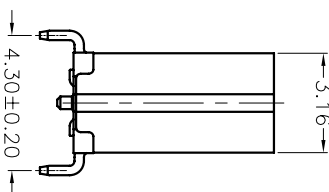
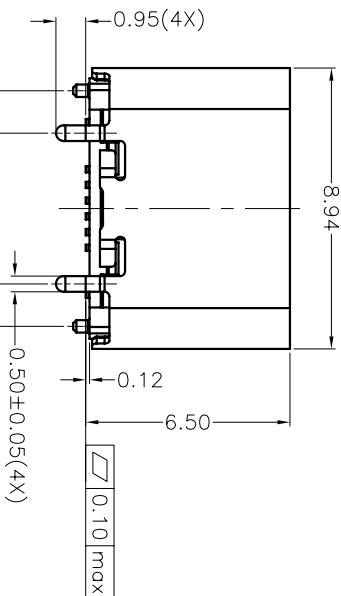
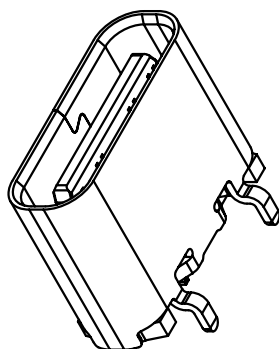
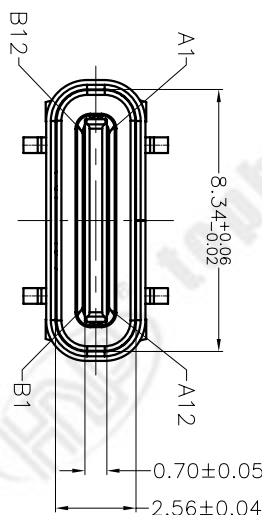
VERTICAL TYPE SHELL H6.50mm

CHECKED BY: S.LLi

APPROVED BY: W.P.Lu

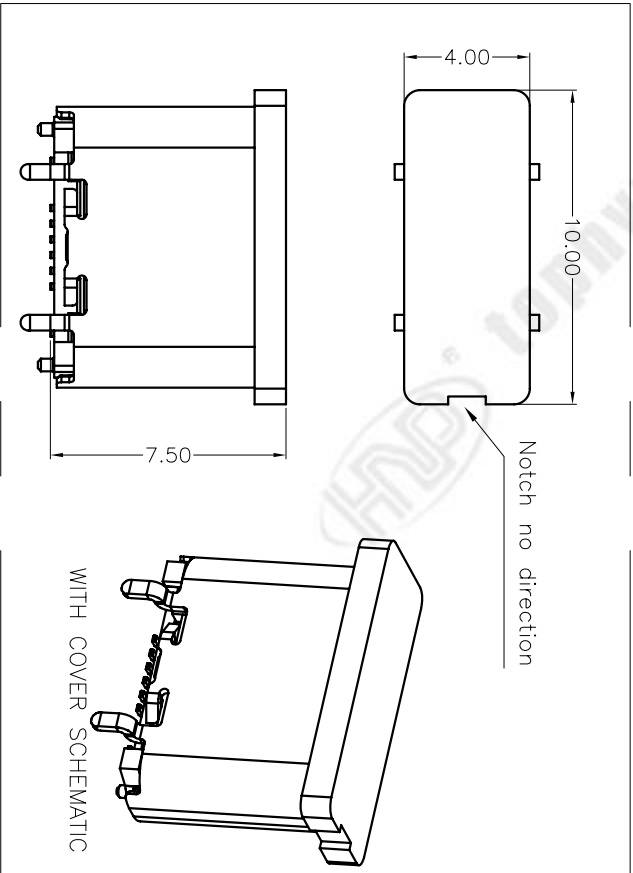
DWG NO. TC136-16LBT2B-02

frame size: A4



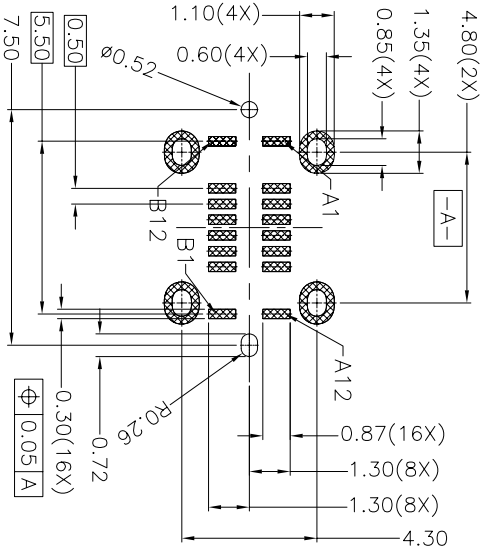
FEMALE AND MALE MATCHING DRAWING

| PART NO.:      |  | SEE THE PART NUMBER CODE |  | TITLE                            |  | THIRD ANGLE PROJECTION |  | SCALE |  | SHEET NO. |  | DWG NO.          |  |
|----------------|--|--------------------------|--|----------------------------------|--|------------------------|--|-------|--|-----------|--|------------------|--|
| QUALITY SYMBOL |  | GENERAL TOLERANCES       |  | HON YUAN                         |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | USB TYPE C FEMALE 16PIN          |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | VERTICAL TYPE SHELL H6.50mm      |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | HON YUAN PRECISION IND. CO.,LTD. |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | SHENZHEN, CHINA, R.D.C.          |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | CONTACTS PLATED:                 |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | 1.2:接触面镀3u"其它GOLD FLASH          |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | HOUSING COLOR:                   |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | B:BLACK                          |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | HOUSING MATERIAL:                |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |
| =              |  | ±                        |  | L:LCP                            |  | PROJECT                |  | 1:1   |  | 1 OF 2    |  | TC136-16LBT2B-02 |  |



USB TYPE-C PIN ASSIGNMENTS

| PIN NUMBER | SIGNAL NAME | PIN NUMBER | SIGNAL NAME |
|------------|-------------|------------|-------------|
| A1         | GND         | B12        | GND         |
| A4         | Vbus        | B9         | Vbus        |
| A5         | CC1         | B8         | SBU2        |
| A6         | Dp1         | B7         | Dn2         |
| A7         | Dn1         | B6         | Dp2         |
| A8         | SBU1        | B5         | CC2         |
| A9         | Vbus        | B4         | Vbus        |
| A12        | GND         | B1         | GND         |



RECOMMENDED PCB LAYOUT(TOP VIEW)  
THICKNESS 0.8±0.10MM;DEFAULT TOLERANCE:±0.05

HON YUAN

HON YUAN PRECISION IND. CO.,LTD.  
SHENZHEN, CHINA, R.O.C.

DRAWN BY: K.DING

CHECKED BY: S.LLI

APPROVED BY: W.P.Lu

DWG NO. TC136-16LB12R-02