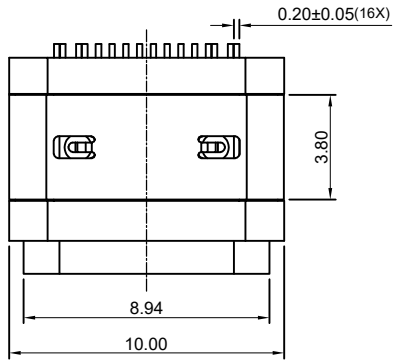
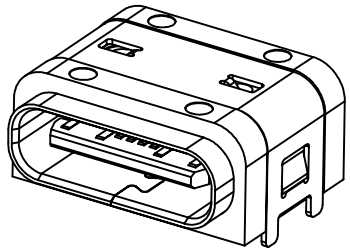
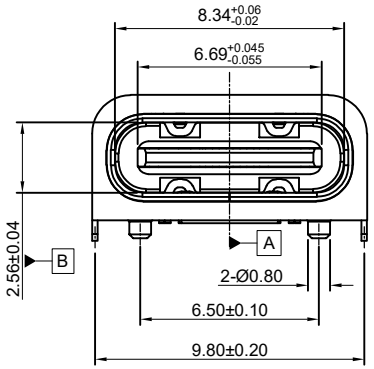
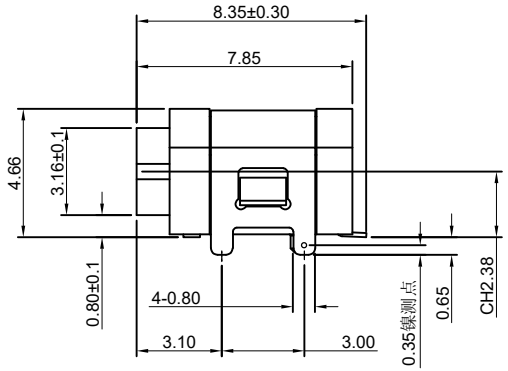
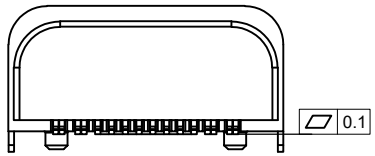
| REV | ECN No. | DATE | REMARK |
|---|---|---|---|
| A | NEW | 2023.11.16 | NEW RELEASE |

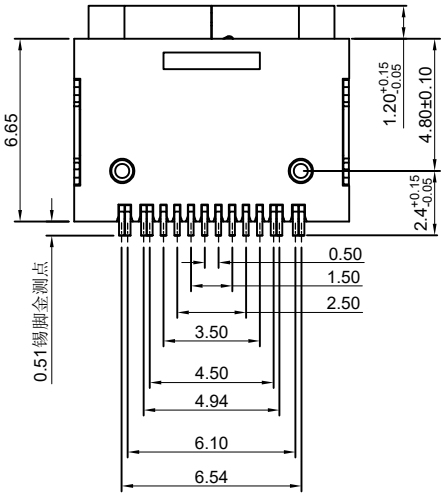


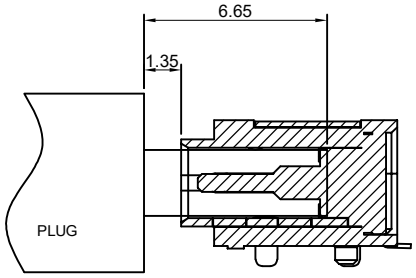






MATED CONDITION(REF.)

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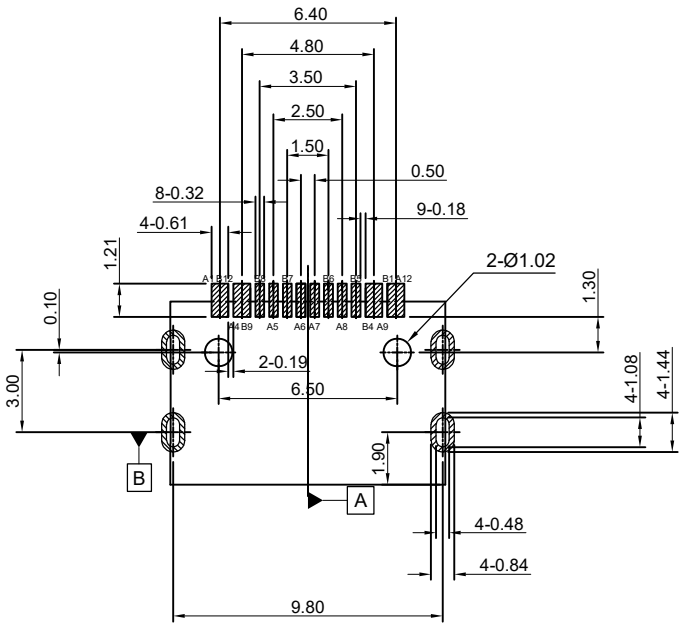
| No. | Description | QTY | Material | Remarks |
|---|---|---|---|---|
| 8 | Run-Ring | 1PCS | Silica Gel | Black |
| 7 | Glue | 1PCS | 环氧胶 | Black |
| 6 | Inside Shell | 1PCS | Stainless Steel SUS304 T=0.3mm | Ni Plated:40U"Min |
| 5 | Out Shell | 1PCS | Stainless Steel SUS304 T=0.2mm | Ni Plated:40U"Min |
| 4 | Shiel Ding Plate | 1PCS | Stainless Steel SUS301 T=0.15mm | ---- |
| 3 | Contact | 1SET | C7025 T=0.15mm | Au 1u" Plated on Contact Area; Au GF Plated on Solder Area; Nickel 30u"Min Underplating Over All. |
| 2 | Shell Housing | 1PCS | PA46/PA9T UL94V-0 | Black |
| 1 | Housing | 1PCS | LCP UL94V-0 | Black |

| | | | |
|---|---|---|---|
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | DRAWN BY: HuangXiaoHao | Date: 2024.12.12 |
| X.XXX | ±0.10 | CHECKED BY: liuzongliang | Date: 2024.12.12 |
| X.XX | ±0.15 | | |
| X.X | ±0.20 | APPROVED BY: Jacky | Date: 2024.12.12 |
| ANGULAR | ±3° | | |
| THIRD ANGLE PROJECTION | | UNT: mm | SCALE: 1:1 |

深圳市中科兴达科技有限公司
Shenzhen Zhongke Xingda Technological Co;Ltd.

| | | | |
|---|---|---|---|
| TITLE | USB 2.0 Type-C Receptacle 16Pin Top-Mount, Waterproof,SMT,L=7.85 | | |
| PART NO. | CFW16-042SLB12R-22 | DWG NO. | CFW16-042-22 |
| DRAWING | A4 | SHEET NO. | 1 OF 3 |
| REV. | A | | |

| REV | ECN No. | DATE | REMARK |
|---|---|---|---|
| A | NEW | 2023.11.16 | NEW RELEASE |




Recommended PCB Layout

Tolerance:±0.05mm

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 |

Note:

1.Electrical:

1-1:Curuent Rataing:5A

1-2:Foltage Rating:20V DD/AC (Rms. Max)

1-3:Initial Contact Resistance :40 mΩ

1-4:Insulation Resistance: 100MΩ Min

1-5:Dieelectric Withstanding Voltage:100V AC Min;

2:Mechanical Characteristics:

2-1:Mating Force:5~20N

2-2:Unmating Force:8~20N(Initial),
6~20N(After 10000 Cycles)

2-3:Frequence:10000 Cycles

2-4:Operating Temperature ;-30℃~85℃.

3.Salt Spray:24H

4.Waterproof:IPX7 1.0M@30Minutes.

## Ordering Information:

CF W(1) 16(2) - 042 S X(3) B 11(4) VR(5) - 22

1.Product Type:
W:Waterproof

2.Pin No.:
16:16Pin

3.Shell Housing:
C:PA9T
L:PA46

4.Housing Color:
B:Black

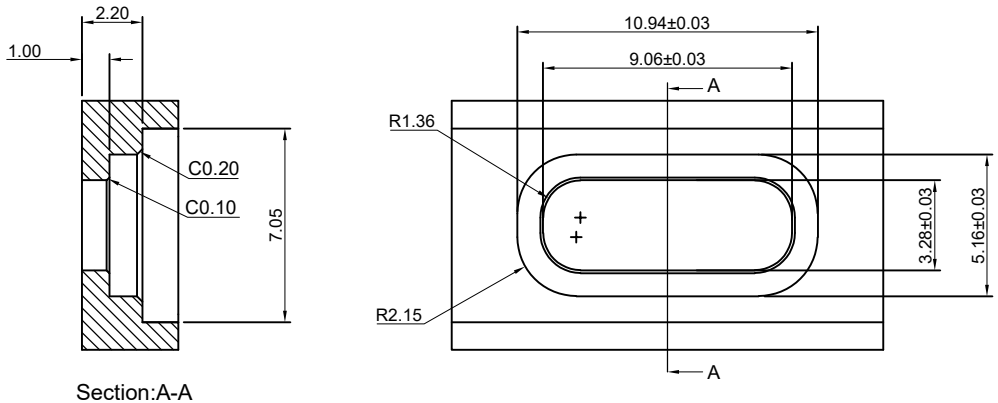
5.Contacts Plated:
11:Contact Area: Au 1u",Solder Tails:GF

6.Packing Options:
VR:Tape & Teel+Vacuum Packaging

| | | | | | |
|---|---|---|---|---|---|
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | DRAWN BY: HuangXiaoHao | Date: 2024.12.12 | 深圳市中科兴达科技有限公司 Shenzhen Zhongke Xingda Technological Co;Ltd. | |
| X.XXX | ±0.10 | CHECKED BY: liuzongliang | Date: 2024.12.12 | TITLE: USB 2.0 Type-C Receptacle 16Pin Top-Mount, Waterproof,SMT,L=7.85 | |
| X.XX | ±0.25 | | | | |
| X.X | ±0.30 | APPROVED BY: Jacky | Date: 2024.12.12 | PART NO. CFW16-042SLB12R-22 | DWG NO. CFW16-042-22 |
| ANGULAR | ±3° | | | | |
| THIRD ANGLE PROJECTION | | UNT mm | SCALE 1:1 | DRAWING A4 | SHEET NO. 2 OF 3 / REV. A |

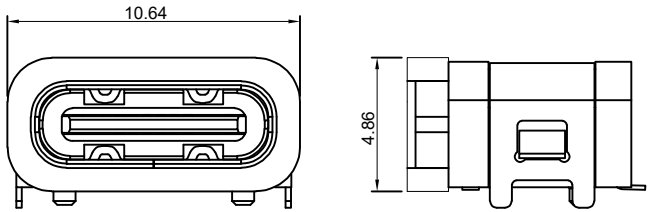
| REV | ECN No. | DATE | REMARK |
|---|---|---|---|
| A | NEW | 2023.11.16 | NEW RELEASE |

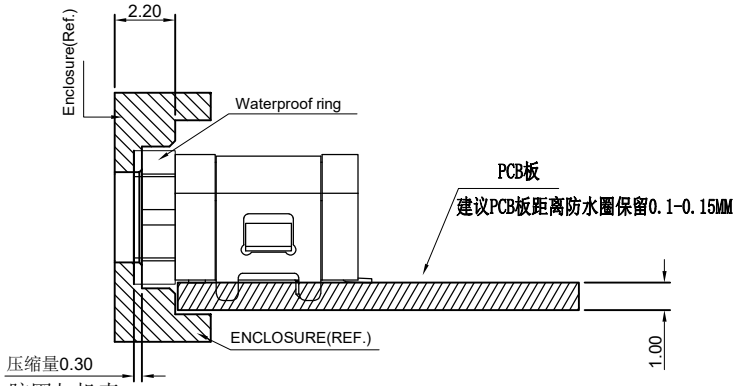
# 机壳开孔建议尺寸图




Section:A-A

## 组装防水圈示意图



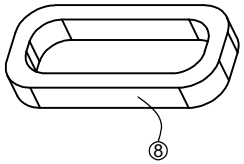



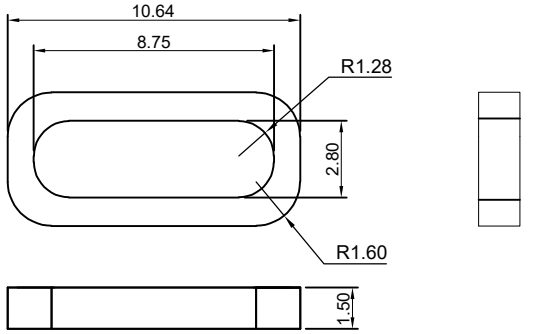

胶圈与机壳
建议周边干涉量

Recommended Schematic Drawing
of Connector Match Chassis

## O-RING VIEW

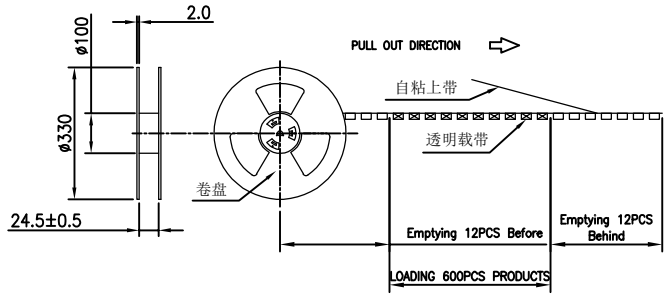
备注:
1.防水圈料号：GJ002GBP-02
2.材质硅橡胶，防水密封用
3.黑色材料
4.材料符合RoHS
5.Shore hardness 60A

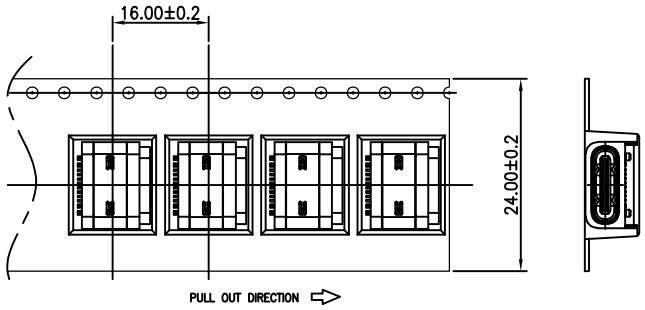


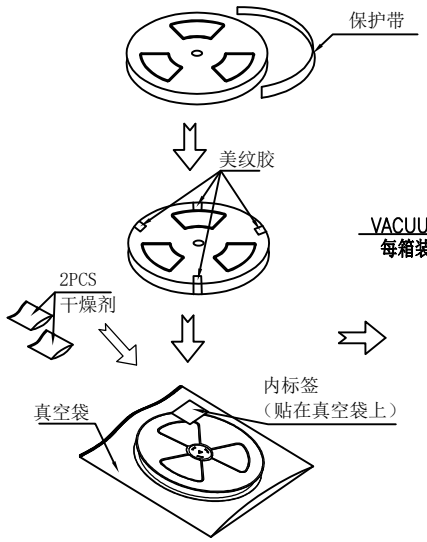



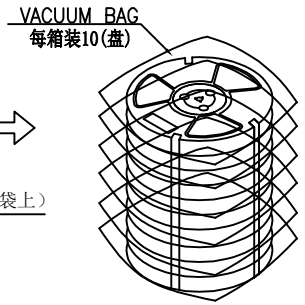

| | | | | | |
|---|---|---|---|---|---|
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | DRAWN BY: HuangXiaoHao | Date: 2024.12.12 | 深圳市中科兴达科技有限公司 Shenzhen Zhongke Xingda Technological Co;Ltd. | |
| X.XXX | ±0.10 | CHECKED BY: liuzongliang | Date: 2024.12.12 | TITLE: USB 2.0 Type-C Receptacle 16Pin Top-Mount, Waterproof,SMT,L=7.85 | |
| X.XX | ±0.25 | | | | |
| X.X | ±0.30 | APPROVED BY: Jacky | Date: 2024.12.12 | PART NO. CFW16-042SLB12R-22 | DWG NO. CFW16-018-22 |
| ANGULAR | ±3° | | | | |
| THIRD ANGLE PROJECTION | | UNT mm | SCALE 1:1 | DRAWING A4 | SHEET NO. 3 OF 3 / REV. A |

| REV | ECN No. | DATE | REMARK |
|---|---|---|---|
| A | NEW | 2023.11.16 | NEW RELEASE |

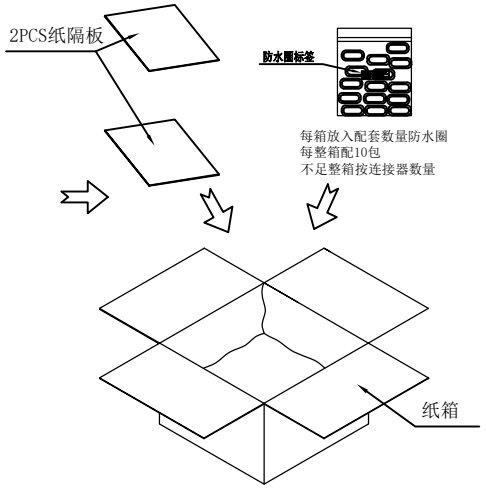


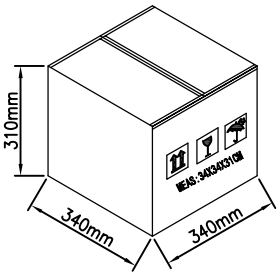




10盘产品放入内箱




| NO. | 类 形 | PART NO. | REEL(PCS) | BAG(PCS) | CARTON(PCS) | 净重（KG） | 毛重（KG） |
|---|---|---|---|---|---|---|---|
| 1 | 产 品 | CFW16-042SLB11VR-22 | 600 | | 6000 | 4.8 | 10.0 |
| 2 | 防水圈 | GJ002GBP-02 | | 600 | 6000 | | |

描述:
1. 产品依以上图纸包装方式对成品进行包装,载带前空12PCS,从第13格开始放置产品,
   放满600PCS后再将载带尾部空置12PCS不放产品;
2. 产品包装好后再用保护带将载带固定在卷盘上,再在四周贴上4PCS美纹胶;
3. 每盘产品需要使用真空袋单独抽真空包装,真空袋放入2包干燥剂,
   然后在真空袋上贴上内标签.
4. 将1PCS隔板放入外箱底部,再将真空好的10包产品放入外箱中,
   配套的防水圈每包装600PCS，贴上防水圈标签，再将10包(6000PCS)内，(防水圈不足整箱按连接器数量)
   最后在最上层盖上1PCS隔板,共计6000PCS/箱;
5. 纸箱封盖后以封箱胶封箱，在外箱的右上角贴上外箱产品标签和防水圈标签，环保标签;
6. 未满之零数箱，需以缓冲材料填满，并粘贴尾数标签.

| NO. | 包材名称 | 用量 | 备 注 |
|---|---|---|---|
| ① | 外 箱 | 1 | 340*340*310mm,K=K |
| ② | 真空袋 | 10 | 银灰色(不透明) |
| ③ | 载 带 | 10 | W=24mm,H4.2透明PET |
| ④ | 自粘上带 | / | 自粘上带 |
| ⑤ | 塑胶卷轴 | 10 | Ø330mm,W=24.5mm |
| ⑥ | 保护带 | 10 | |
| ⑦ | 隔 板 | 2 | |
| ⑨ | 环保标签 | 11 | |
| ⑩ | 产品内标签 | 10 | |
| ⑪ | 产品外标签 | 1 | |
| ⑫ | 防水圈内标签 | 10 | |
| ⑬ | 防水圈外标签 | 1 | |
| ⑭ | 产品 | 6000 | |
| ⑮ | 美纹胶 | 4 | |
| ⑯ | 干燥剂 | 20 | |
| ⑰ | 防水圈 | 6000 | |

| | | | |
|---|---|---|---|
| PART NO.: SEE THE PART NUMBER CODE | | DRAWN BY: HuangXiaoHao | 深圳市中科兴达科技有限公司 SHENZHEN ZDT TECHNOLOGY CO.,LTD |
| GENERAL TOLERANCES | | CHECKED BY: liuzongliang | TITLE: TYPE CF 16P板上防水IPX7 CH=2.38 L7.85-包装规范 |
| x.xxxx | ± --- | APPROVED BY: Jacky | |
| x.xxx | ± 0.10 | | |
| x.xx | ± 0.25 | | |
| x.x | ± 0.30 | THIRD ANGLE PROJECTION | DIMENSIONS: mm / SCALE: 1:1 / DRAWING: A4 / SHEET NO.: 1 OF 1 / DWG.NO.: PK-CFW16-042SLB12R-22 |
| ANGULAR | ± 3° | | |