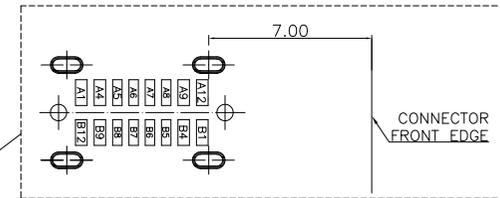
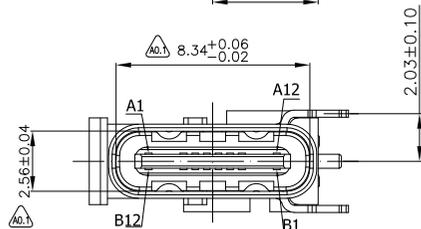
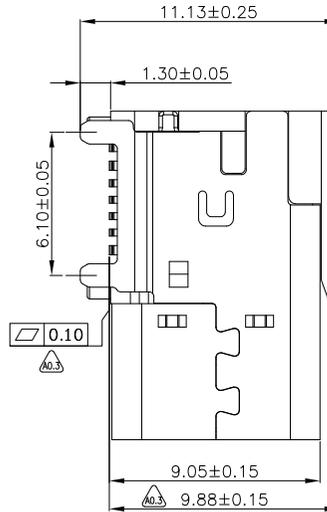
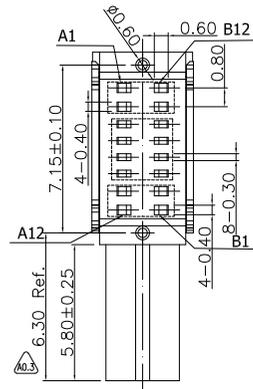
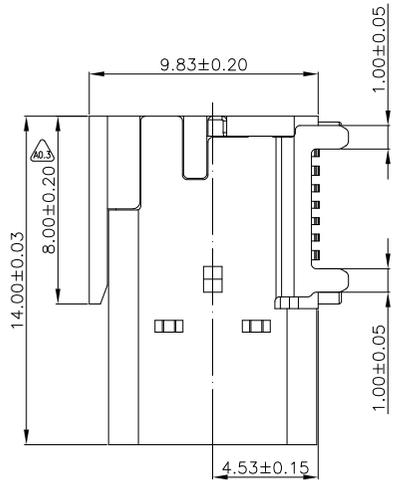
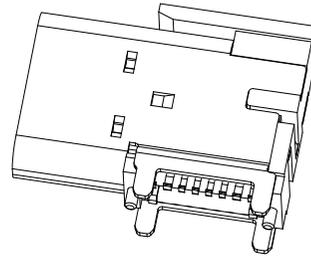
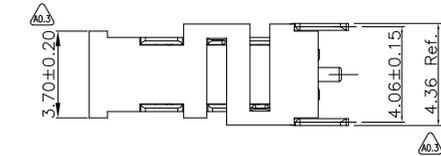


# GP Component

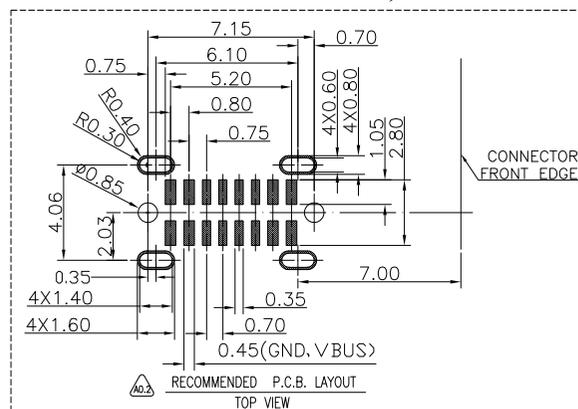
| REV. | ECN NO. | LOCATIONS | DESCRIPTION      | DATE       | DESIGN  |
|------|---------|-----------|------------------|------------|---------|
| A0   |         |           | Initial          | 2020/02/26 | Hanson  |
| A0.1 |         |           | 修正Layout建議配置開孔尺寸 | 2022/11/14 | Ken Lin |
| A0.2 |         |           | 修正Layout 尺寸配置    | 2022/12/08 | Ken Lin |
| A0.3 |         |           | 追加尺寸標註           | 2023/04/21 | Ken Lin |

## 特性:

- 一、电气性能: ELECTRICAL
  1. 额定电流: 5.0A
  2. 接触阻抗: 30 MILLIOHMS MAX
  3. 耐电压: 300V AC / 1 mA MAX
  4. 绝缘阻抗: 250V DC/100 MEGA OHMS MIN
- 二、机械性能:
  1. 插入力: 5~20N
  2. 拨出力: 8~20N
  3. 使用寿命: 10000次、拨出力 5N MIN
- 三、材料: MATERIAL
  1. 塑胶: LCP黑色 UL94V-0
  2. 端子: C7025/C5191 T=0.15MM
  3. 外壳: SUS304 T=0.30MM
  4. 卡勾: SUS304 T=0.15MM
- 四、电镀: FINISH
  1. 端子: 接触点镀金G/F (0.5u" MIN)  
PIN脚焊接区域镀亮锡80u"MIN.
  2. 外壳: 镀镍80u"MIN (盐雾24H)
- 五、电镀品需做粘锡测试: 粘锡面积达到95%以上。
- 六、SMT回流焊 (峰值260° C±5° C) 不能起泡、熔胶、变色不良 (变形在公差范围以内)
- 七、工作温度: -55° C~+85° C
- 八、盐雾测试: 通过24H在浓度为5±1%盐水的盐雾测试无生锈现象



|     |      |     |      |
|-----|------|-----|------|
| A1  | GND  | B12 | GND  |
| A2  |      | B11 |      |
| A3  |      | B10 |      |
| A4  | VBUS | B9  | VBUS |
| A5  | CC1  | B8  | SBU2 |
| A6  | DP1  | B7  | DN2  |
| A7  | DN1  | B6  | DP2  |
| A8  | SBU1 | B5  | CC2  |
| A9  | VBUS | B4  | VBUS |
| A10 |      | B3  |      |
| A11 |      | B2  |      |
| A12 | GND  | B1  | GND  |



MATRIX PART NO:

MUSB12- 01 - 457  
 MATRIX TYPE-C — Series number  
 Gold Plating  
 01:G/F(0.5u" MIN.)  
 15:15u"  
 30:30u"



Matrix Electronics Co.,Ltd

|   |                                |                      |  |               |
|---|--------------------------------|----------------------|--|---------------|
| <b>TOLERANCE:</b><br>X.X ±0.20<br>X.XX ±0.15<br>X.XXX ±0.05<br>ANGLE: ±3° | DESIGN BY :<br>Ken Lin         | DATE :<br>2023/04/21 | PART NAME:<br>USB TYPE-C 16PIN Female<br>侧立式 SMD CH=4.53mm |               |
|   | CHECKED BY:<br>Vicky Hsieh     | DATE :<br>2023/04/21 | PART NO.   | MUSB12-01-457 |
| UNIT: mm [inch]<br>SCALE:1:1 SIZE:A4                                      | APPROVED BY1:<br>Richard Hsieh | DATE :<br>2023/04/21 | MOLD NO.   | NA            |
|   | APPROVED BY2:<br>Richard Hsieh | DATE :<br>2023/04/21 | DRAW NO.   |               |
|   |                                |                      | SHEET NO.  | 1 OF 1        |