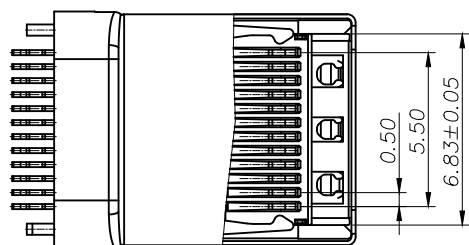
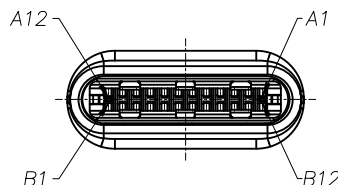
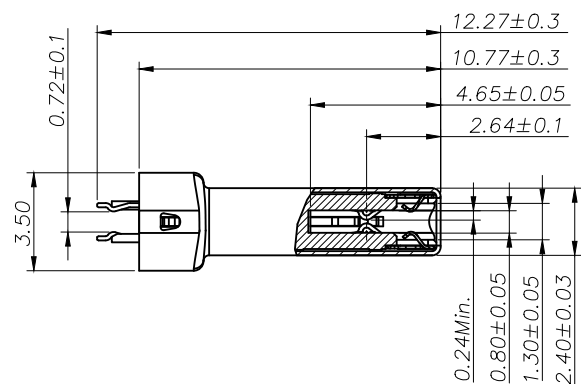


WITHOUT COVER



#### NOTE:

##### 1.MATERIAL SPECIFICATION:

- 1.HOUSING: LCP, UL94 V-0.
- 2.CONTACTS: COPPER ALLOY(C7025)
- 3.LATCH: STAINLESS STEEL(SUS301)
- 4.FRONT SHELL: STAINLESS STEEL(SUS316)
- 5.EMI SPRING: STAINLESS STEEL(SUS304)

##### 2.PLATING SPECIFICATION:

###### 2-1.CONTACTS:

- Ni 50u" MIN. UNDER PLATED OVER ALL.
- Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
- (GOLD PLATING THICKNESS FOLLOW THE P/N)
- PLATING SPECIFICATIONS OF THE SOLDER AREA FOLLOW THE P/N

###### 2-2.FRONT SHELL&LATCH:

- Ni 30u" MIN. UNDER PLATED OVER ALL.

###### 2-3.EMI SPRING:

- CLEAR ONLY

##### 3.MECHANICAL PERFORMANCE,

- 3-1.INSERTION FORCE: 0.5~2.0kgf.
- 3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.
- 3-3.DURABILITY: 10000 CYCLES.

##### 4.ELECTRICAL PERFORMANCE,

- 4-1. CURRENT RATING: 3.0A  
VOLTAGE RATING: 5.0V
- 4-2. LLCR:  
VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX.  
SHIELD: 50mΩ/MAX.  
LLCR 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°C~+85°C.

##### 6.MANUAL SOLDERING

- TERMINAL WELDING AREA TEMPERATURE: 350 ± 10 °C
- IMMERSION DURATION : 3.5 ± 0.5 SEC

#### PART NUMBER:

UC31-014002 010-1 51

010: Au: 1u"

030: Au: 3u"

150: Au: 15u"

300: Au: 30u"

33: WITHOUT COVER  
51: WITH COVER

| TOLERANCE    |       | <b>VITALCON</b><br>a vital connector company |      | FOR YOUR<br>VITAL CONNECTION |  |
|--------------|-------|----------------------------------------------|------|------------------------------|--|
| X.X          | ±0.30 | X.°                                          | ±10° |                              |  |
| .XX          | ±0.20 | .X°                                          | ±8°  |                              |  |
| .XXX         | ±0.10 | .XX°                                         | ±5°  |                              |  |
| UNITS        |       | mm                                           |      | TITLE:                       |  |
| DRAWN BY:    |       | Zou Long                                     |      | PART NO:                     |  |
| CHECKED BY:  |       | Bob                                          |      | UC31-014002010-151           |  |
| APPROVED BY: |       | QPF                                          |      | REV: A                       |  |
| SIZE: A4     |       | UNIT:mm                                      |      | SHEET:1 OF 3                 |  |
| PROJECTION   |       |                                              |      | FCN: F9                      |  |
|              |       |                                              |      | http://www.vitalconn.com     |  |

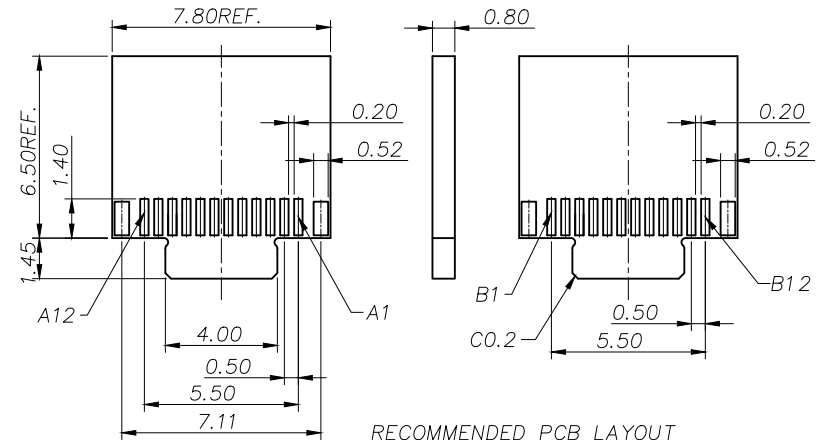
For technical support, please send an email to [support@vitalconn.com](mailto:support@vitalconn.com)



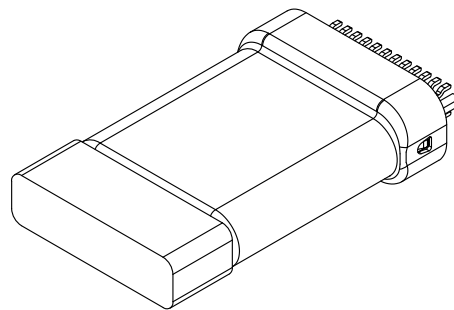
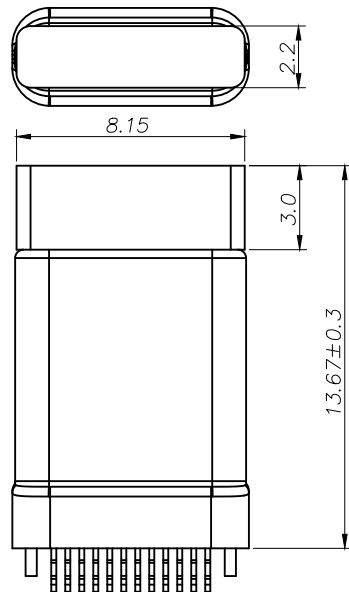
| REV: | ECN. NO. | NAME | DATE |
|------|----------|------|------|
|      |          |      |      |
|      |          |      |      |

#### USB TYPE-C PIN ASSIGNMENTS

| PIN NUMBER | SIGNAL NAME | PIN NUMBER | SIGNAL NAME |
|------------|-------------|------------|-------------|
| A1         | GND         | B12        | GND         |
| A2         | SSTXp1      | B11        | SSRXp1      |
| A3         | SSTXn1      | B10        | SSRXn1      |
| 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        | SSRXn2      | B3         | SSTXn2      |
| A11        | SSRXp2      | B2         | SSTXp2      |
| A12        | GND         | B1         | GND         |



RECOMMENDED PCB LAYOUT  
DEFAULT TOLERANCE:  $\pm 0.05$



WITH COVER

TABLE 1

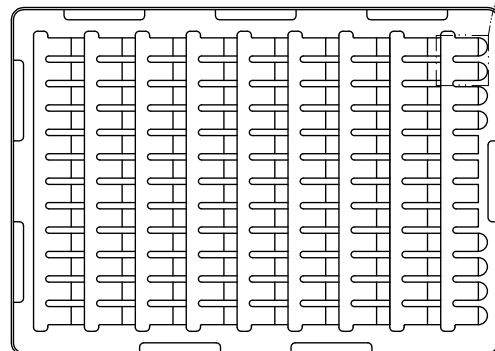
| ITEM | P/N                | HOUSING COLOR | CONTACTS        |             | REMARK     |
|------|--------------------|---------------|-----------------|-------------|------------|
|      |                    |               | FUNCTIONAL AREA | SOLDER AREA |            |
| 1    | UC31-014002010-151 | BLACK         | Au: 1u"         | Sn          | WITH COVER |
| 2    | UC31-014002030-151 | BLACK         | Au: 3u"         | Sn          | WITH COVER |
| 3    | UC31-014002150-151 | BLACK         | Au: 15u"        | Sn          | WITH COVER |
| 4    | UC31-014002300-151 | BLACK         | Au: 30u"        | Sn          | WITH COVER |

| TOLERANCE    |          | <b>VITALCON</b><br>a vital connector company |                    | FOR YOUR<br>VITAL CONNECTION                                    |         |
|--------------|----------|----------------------------------------------|--------------------|-----------------------------------------------------------------|---------|
| X.X          | ±0.30    | X.°                                          | ±10°               |                                                                 |         |
| .XX          | ±0.20    | .X°                                          | ±8°                | TITLE: USB C TYPE PLUG 24PIN STAMPING SHELL                     |         |
| .XXX         | ±0.10    | .XX°                                         | ±5°                |                                                                 |         |
| UNITS        |          | mm                                           |                    |                                                                 |         |
| DRAWN BY:    | Zou Long | PART NO:                                     | UC31-014002010-151 | REV: A                                                          |         |
| CHECKED BY:  | Bob      | SIZE: A4                                     | UNIT:mm            | SHEET:2 OF 3                                                    | FCN: F9 |
| APPROVED BY: | QPF      | PROJECTION                                   |                    | <a href="http://www.vitalconn.com">http://www.vitalconn.com</a> |         |

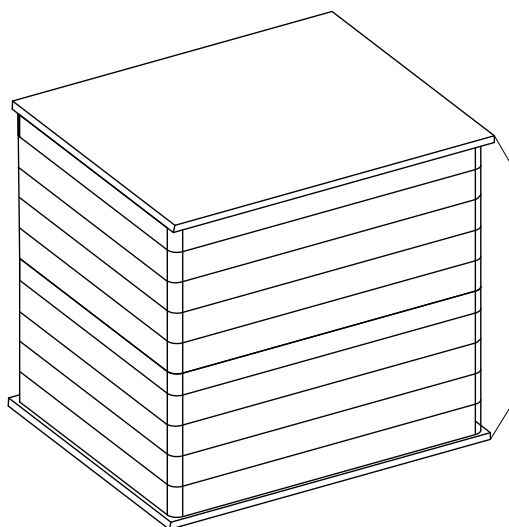
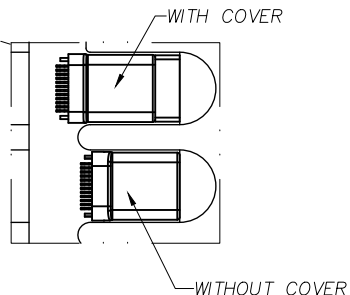
For technical support, please send an email to [support@vitalconn.com](mailto:support@vitalconn.com)



| REV: | ECN. NO. | NAME | DATE |
|------|----------|------|------|
|      |          |      |      |
|      |          |      |      |

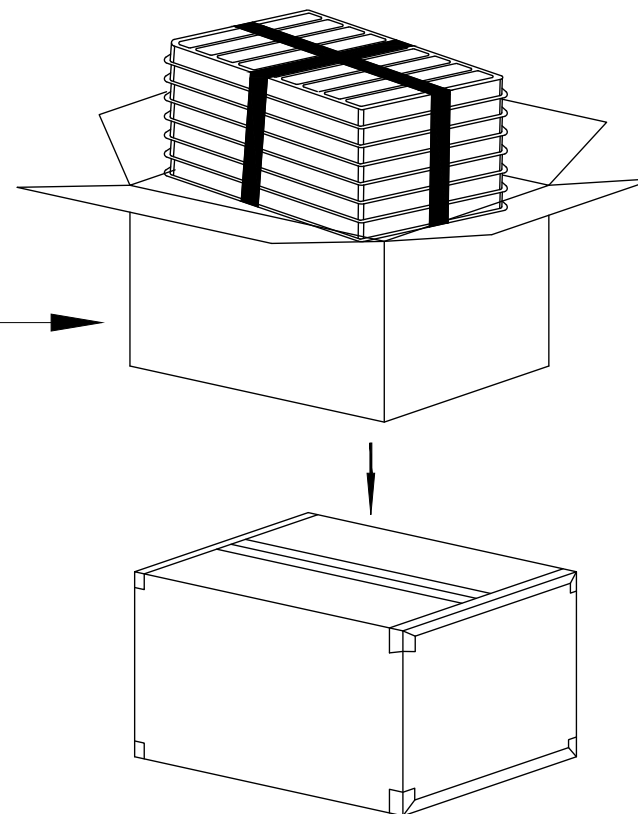


EARCH TRAY PACKING 108 PCS



40 LAYERS PRODUCTS FOR A BUNDLE

40LAYERS



|                 | TRAY | CARTON |
|-----------------|------|--------|
| CONNECTOR (PCS) | 108  | 8640   |

|                                                                                          |  |                                              |  |                                                                 |  |
|------------------------------------------------------------------------------------------|--|----------------------------------------------|--|-----------------------------------------------------------------|--|
| TOLERANCE<br>X.X ±0.30 X.° ±10°<br>.XX ±0.20 .X.° ±8°<br>.XXX ±0.10 .XX° ±5°<br>UNITS mm |  | <b>VITALCON</b><br>a vital connector company |  | FOR YOUR<br>VITAL CONNECTION                                    |  |
| DRAWN BY: Zou Long                                                                       |  | TITLE: USB C TYPE PLUG 24PIN STAMPING SHELL  |  | REV: A                                                          |  |
| CHECKED BY: Bob                                                                          |  | PART NO: UC31-014002010-151                  |  | SHEET:3 OF 3 FCN: F9                                            |  |
| APPROVED BY: QPF                                                                         |  | PROJECTION                                   |  | <a href="http://www.vitalconn.com">http://www.vitalconn.com</a> |  |

For technical support, please send an email to [support@vitalconn.com](mailto:support@vitalconn.com)