

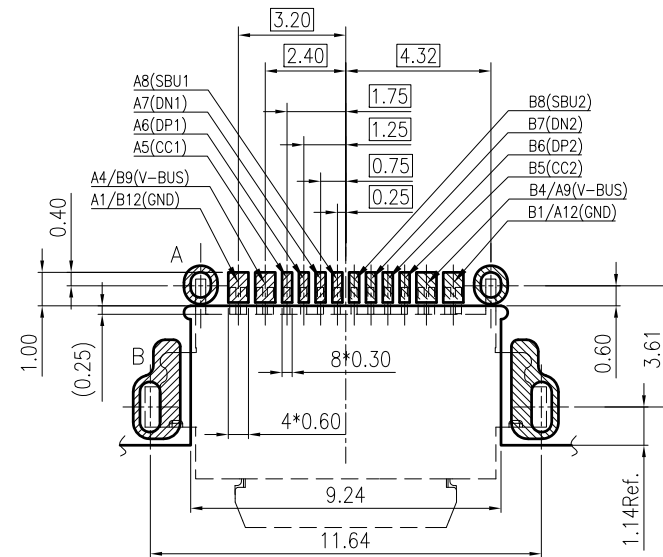
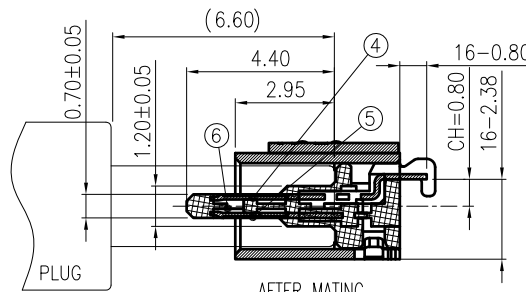
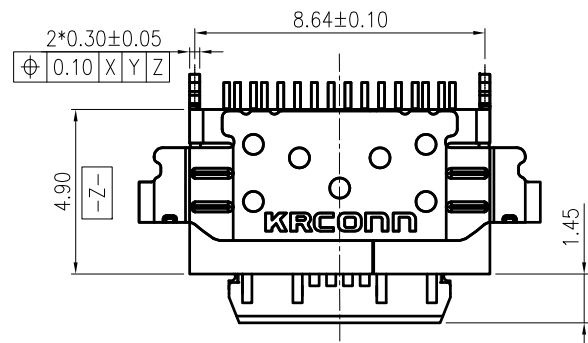


| PIN         | A1  | A2 | A3 | A4 | A5   | A6  | A7  | A8  | A9   | A10  | A11 | A12 |
|-------------|-----|----|----|----|------|-----|-----|-----|------|------|-----|-----|
| Signal Name | GND |    |    |    | VBUS | CC1 | Dp1 | Dn1 | SBU1 | VBUS |     | GND |
| PIN         | B1  | B2 | B3 | B4 | B5   | B6  | B7  | B8  | B9   | B10  | B11 | B12 |
| Signal Name | GND |    |    |    | VBUS | CC2 | Dp3 | Dn2 | SBU2 | VBUS |     | GND |

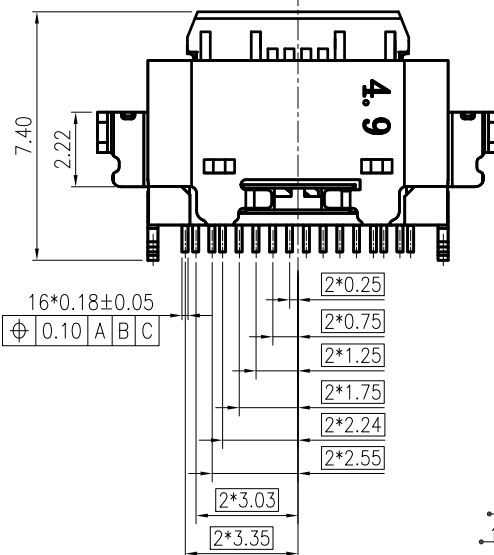
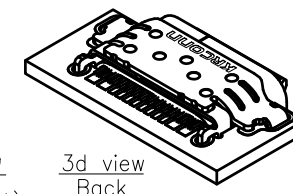
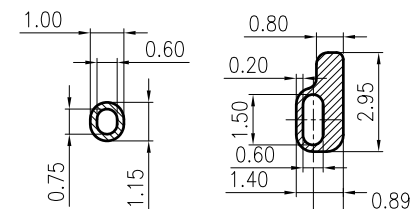
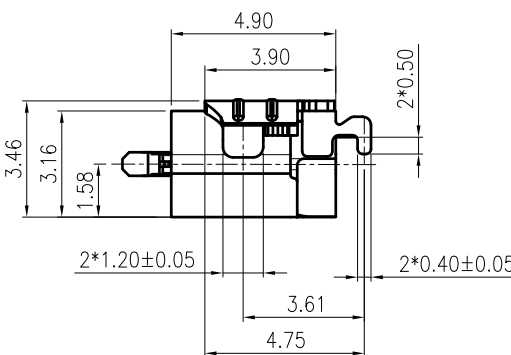
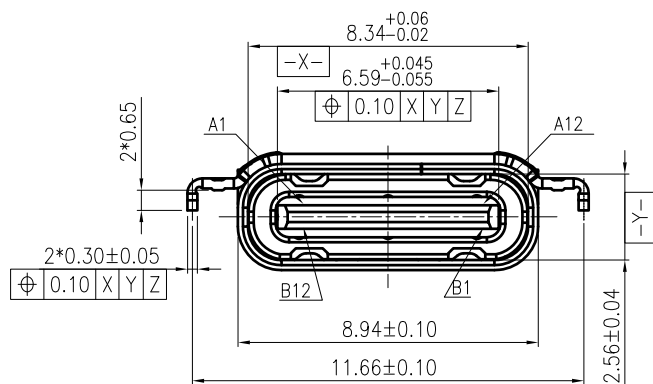
#### Part NO. Detailed List

| ITEM | P/N               | LOGO    | COLOR |
|------|-------------------|---------|-------|
| 1    | TCR31-04121602-41 | With    | BALCK |
| 2    | TCR31-04221602-42 | With    | WHITE |
| 1    | TCR31-04121602-43 | Without | BALCK |
| 2    | TCR31-04221602-44 | Without | WHITE |

| REV. | ECN NO OR DESCRIPTION | REVISED | DATE       |
|------|-----------------------|---------|------------|
| A    | FIRST RELEASE         | ERIC    | 2022.04.11 |



RECOMMENDED P.C.B LAYOUT (COMPONENT SIDE)  
DEFAULT TOLERANCE: ±0.05mm



#### SPECIFICATION:

- ELECTRICAL CHARACTERISTICS:
  - CURRENT RATING: 1.5A/Pin MAX(A4,A9,B4,B9)  
1.25A/Pin MAX(A1,A12,B1,B12),0.25A(OTHER PIN)
  - CONTACT RESISTANCE: 40 MILLIONHM MAX.
  - DIELECTRIC WITHSTANDING VOLTAGE: 100 VAC r.m.s
  - INSULATION RESISTNACE: 100 MEGOHMS MIN.
- MECHANICAL CHARACTERISTICS
  - INSERTION FORCE: 5~20N
  - EXTRACTION FORCE: Initial:8~20N;Durability:6~20N(1000cycles);
  - DURABILITY:10,000CYCLES
- ENVIRONMENTAL CHARACTERISTICS
  - TEMPERATURE RANGE: -40 °C ~ 85 °C
  - IR REFLOW:

THE PEAK TEMPERATURE ON THE BOARD SHALL  
BE MAINTAINED FOR 10 SECONDS AT 260°C.

#### 4.PART NO.:

TCR31-04X21602-4X

- Product Order
- 16:HEIGHT ON BOARD 1.6mm
- 1=BLACK HOUSING/2=WHITE HOUSING
- 2=WITH OUT POST
- 4X= Services NO.  
SEE Detailed List
- 02=3u" Au Plating  
On Contact Aera
- Pin NO. 16=16Pin

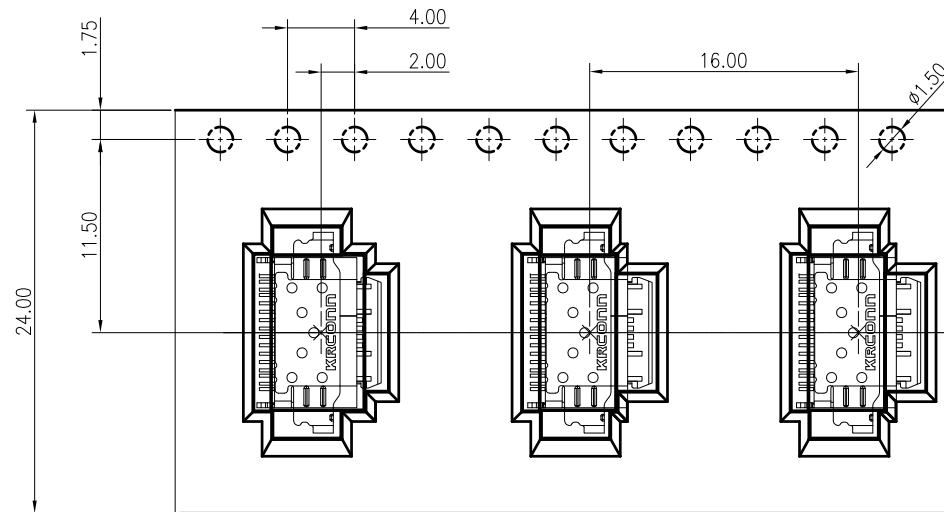
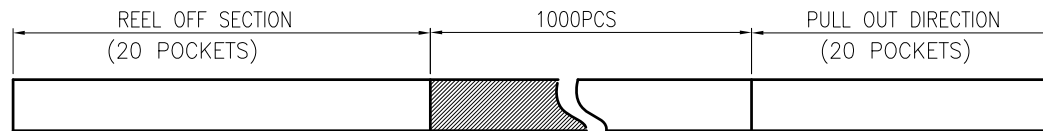
| ⑥   | MID PLATE   | 1 PCS | STAINLESS STEEL | NO SURFACE TREATMENT                                                                                |
|-----|-------------|-------|-----------------|-----------------------------------------------------------------------------------------------------|
| ⑤   | CONTACT B   | 1 SET | COPPER ALLOY    | Ni 50u" MIN. UNDER PLATED OVER ALL.<br>Au 30u" PLATED ON THE FUNCTIONAL AREA OF CONTACT.            |
| ④   | CONTACT A   | 1 SET | COPPER ALLOY    | (GOLD PLATING THICKNESS FOLLOW THE P/N)<br>PLATING SPECIFICATIONS OF THE SOLDER AREA FOLLOW THE P/N |
| ③   | HOUSING     | 3 PCS | THERMOPLASTIC   | COLOR: BLACK&WHITE                                                                                  |
| ②   | SHELL       | 1 PCS | STAINLESS STEEL | Ni 30u" MIN. UNDER PLATED OVER ALL.                                                                 |
| ①   | COVER SHELL | 1 PCS | STAINLESS STEEL | Ni 30u" MIN. UNDER PLATED OVER ALL.                                                                 |
| NO. | DESCRIPTION | QTY.  | MATERIAL        | FINISH                                                                                              |

|                                          |        |                                                      |      |                                          |
|------------------------------------------|--------|------------------------------------------------------|------|------------------------------------------|
| UNLESS OTHERWISE<br>SPECIFIED TOLERANCES |        | 深圳市精睿兴业科技有限公司<br>SHENZHEN KRCONN TECHNOLOGY CO., LTD |      |                                          |
| DECIMALS:                                |        | ANGLES:                                              |      | TITLE                                    |
| X                                        | :±0.5  | X                                                    | :±2° | Type.C 16PIN L=4.9mm L/P2.4mm CONN. REC. |
| X.X                                      | :±0.30 | X.X                                                  | :±1° | DWN chenjun PART NO. TCR31-04X21602-4X   |
| X.XX                                     | :±0.20 |                                                      |      | CHKD chenjun SCALE:1:1 UNIT: mm          |
| X.XXX                                    | :±0.10 |                                                      |      | APVD Kevin.d SIZE: A4 SHEET:10F1 REV: A  |
| DRAW NO. C-DWG-TCR31-06                  |        |                                                      |      | CUSTOMER COPY                            |



| REV. | ECN NO OR DESCRIPTION | REVISED | DATE       |
|------|-----------------------|---------|------------|
| A    | PROPOSE ONLY          | ERIC    | 2022.03.22 |

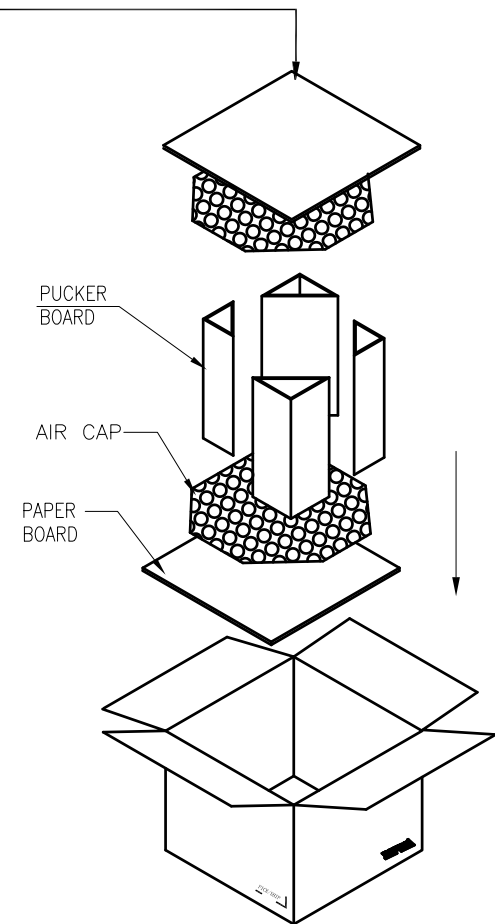
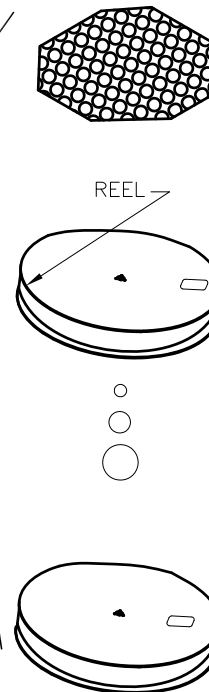
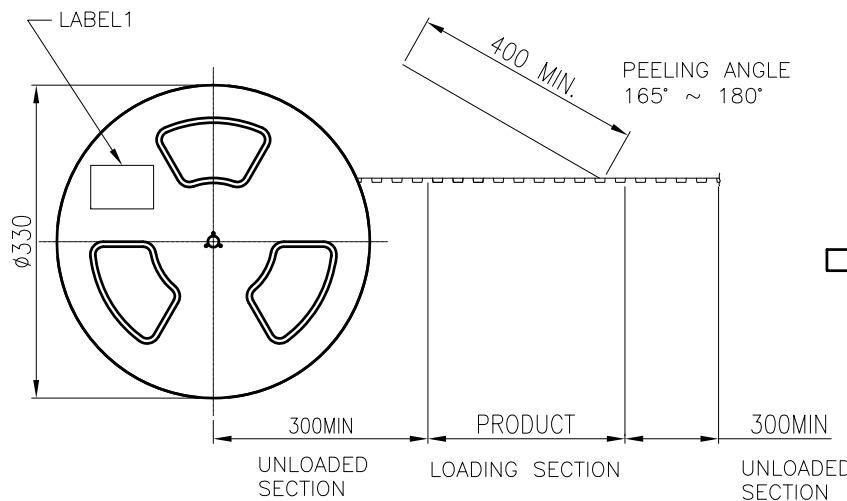
| CONN. PART NO.    | CONN. QTY./REEL | REEL QTY./CARTON | CONN. QTY./CARTON |
|-------------------|-----------------|------------------|-------------------|
| TCR31-04X21602-4X | 1000            | 10               | 10000 PCS         |



CUSTOMER TO USE DIRECTION

PULL OUT DIRECTION  
(出料方向)

TOTAL  
10LAYERS



| UNLESS OTHERWISE SPECIFIED TOLERANCES |          | 深圳市精睿兴业科技有限公司<br>SHENZHEN KRCONN TECHNOLOGY CO., LTD |                                          |               |        |
|---------------------------------------|----------|------------------------------------------------------|------------------------------------------|---------------|--------|
| DECIMALS:                             | ANGLES:  | TITLE                                                | Type.C 16PIN L=4.9mm L/P2.4mm CONN. REC. |               |        |
| X :±0.5                               | X :±2°   | DWN chenjun                                          | PART NO. TCR31-04X21602-4X               |               |        |
| X.X :±0.30                            | X.X :±1° | CHKD chenjun                                         | SCALE:1:1                                | UNIT: mm      |        |
| X.XX :±0.20                           |          | APVD Kevin.d                                         | SIZE: A4                                 | SHEET:10F1    | REV: A |
| X.XXX :±0.10                          |          | DRAW NO. C-DWG-TCR31-06                              |                                          | CUSTOMER COPY |        |