

HSF Compliant

| REV. | ECN NO. | DESCRIPTION | DRAW | CHECK  | APPD.  | DATE       |
|------|---------|-------------|------|--------|--------|------------|
| A0   | ---     | 新案发行        | YIN  | BENDEE | BENDEE | 2022.12.21 |

- Specifications:
- 1.0 Electrical performance:
    - 1.1 Contact resistance: 40mΩ max for initial. 10mΩ change after test. measure at 20mv, 100mA.
    - 1.2 Dielectric withstanding voltage: AC 100V(rms).
    - 1.3 Insulation resistance: 100MΩ min.
    - 1.4 Contact current rating:  
3A for Vbus pin; 1.25A for Vconn and GND pin; 0.25A for all the other pin.
    - 1.5 Voltage: 5 Vac (rms).
  - 2.0 mechanical performance:
    - 2.1 Mating force: 5~20N
    - 2.2 Unmating force: 8~20N Initial test, 6~20N After test
    - 2.3 Durability: 10,000 cycles.
  - 3.0 Environmental performance:
    - 3.1 Temperature range:
    - 3.2 Operating temperature: -25°to+85°.
    - 3.3 Storage temperature: -20°to+60°.
  - 4.0 Material:
    - 4.1 Housing: (see table), UL94-V0.
    - 4.2 Contact: C7025, T=0.12mm
    - 4.3 Mid-plate: SUS301, T=0.15mm
    - 4.4 Shell-in: SUS304 T=0.30mm
    - 4.5 Shell-out: SUS301 T=0.20mm
  - 5.0 Plating specification:
    - 5.1 Contact: Au(see table) plated on contact area Matte Tin plated 100u"min on solder area; Nickel 50u"min underplating over all.
    - 5.2 Shell-out: 10u"min nickel plating only at tail, 1u"min Au at tabs and solder tail.

RECOMMENDED PCB LAYOUT(TOP)  
TOLERANCES: ±0.05MM

|     |             |     |             |
|-----|-------------|-----|-------------|
| 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         |
| PIN | SIGNAL NAME | PIN | SIGNAL NAME |



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|                                       |             |
|---------------------------------------|-------------|
| UNLESS OTHERWISE SPECIFIED TOLERANCES |             |
| X. +/-                                | METRIC 0.15 |
| .X +/-                                | 0.10        |
| .XX +/-                               | 0.05        |
| FRACTIONS +/-                         |             |
| ANGLES +/-                            | 2.00°       |
| DIMENSIONS                            |             |
| (METRIC)                              | (MM)        |

| APPROVAL            | 日期         | 品名规格                                                        |
|---------------------|------------|-------------------------------------------------------------|
| 制图 YIN              | 2022.12.21 | USB 3.1 GEN2 TYPE C RECEPTACLE 24P SMT+DIP CH3.4 L11.10 有卷边 |
| 审核                  |            | 料号                                                          |
| 核准                  |            |                                                             |
| 文件位置                |            | 字库                                                          |
| ANGLE OF PROJECTION |            | 工程图号: DWG-CTCF-233                                          |
|                     |            | 版本: A0                                                      |
| 比例                  | 1 : 1      | 状态码 A                                                       |
|                     |            | 页数 1 OF 1                                                   |

|                                                                                                                                                                                    |   |   |     |   |    |   |    |    |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----|---|----|---|----|----|----|
| 料号备注                                                                                                                                                                               |   |   |     |   |    |   |    |    |    |
| CT                                                                                                                                                                                 | 3 | F | 233 | M | XX | X | XX | XX | XX |
| 12=半金零锡11"<br>13=半金零锡30"<br>14=半金零锡50"<br>15=半金零锡150"<br>16=半金零锡300"<br>0=CP本白色不锈钢壳镀金0.05mm<br>10=LCP黑不锈钢壳镀金0.05mm<br>R=ROHS2.0标准<br>W=无卤+ROHS2.0<br>H=REACH标准<br>B=盐雾2组<br>C=盐雾4组 |   |   |     |   |    |   |    |    |    |

