APPROVED: _____

DATE: _____ TITLE: _____

13.60

17.70

13.00

0.30

8.50

4.07

15.4

1.80

10.20

2.32

12.75±0.30

1.50

9.83

5.68

1.45

12.8

1.5

1.2

ø0.4

1.5

0.5

1.2

1.0

ø0.4

1.5

1.5

5.7

1.5

9.6

1.0

RECOMMENDED PCB LAYOUT(TOP VIEW)
(DEFAULT TOLERANCE:±0.05)

1.00

1.00

1.20

1.00

1.00

1.45

9.55

USB TYPE-C FULL-FEATURED RECEPTACLE INTERFACE PIN ASSIGNMENTS

| PIN | Signal Name | Description | PIN | Signal Name | Description |
|---|---|---|---|---|---|
| A1 | GND | Ground return | B12 | GND | Ground return |
| A2 | SSTXp1 | Positive half of first SuperSpeed TX differential pair | B11 | SSRXp1 | Positive half of first SuperSpeed RX differential pair |
| A3 | SSTXn1 | Negative half of first SuperSpeed TX differential pair | B10 | SSRXn1 | Negative half of first SuperSpeed RX differential pair |
| A4 | VBUS | Bus Power | B9 | VBUS | Bus Power |
| A5 | CC1 | Configuration Channel | B8 | SBU2 | Sideband Use (SBU) |
| A6 | Dp1 | Positive half of the USB 2.0 differential pair-Position 1 | B7 | Dn2 | Negative half of the USB 2.0 differential pair-Position 2 |
| A7 | Dn1 | Negative half of the USB 2.0 differential pair-Position 1 | B6 | Dp2 | Positive half of the USB 2.0 differential pair-Position 2 |
| A8 | SBU1 | Sideband Use (SBU) | B5 | CC2 | Configuration Channel |
| A9 | VBUS | Bus Power | B4 | VBUS | Bus Power |
| A10 | SSRXn2 | Negative half of second SuperSpeed RX differential pair | B3 | SSTXn2 | Negative half of second SuperSpeed TX differential pair |
| A11 | SSRXp2 | Positive half of second SuperSpeed RX differential pair | B2 | SSTXp2 | Positive half of second SuperSpeed TX differential pair |
| A12 | GND | Ground return | B1 | GND | Ground return |

SPECIFICATIONS:
Material:
Insulator: Hi-Temp Thermoplastic, rated UL 94V-0
Insulator color: Black
Contacts: Copper Alloy
Shell: SUS304, Nickel Plated
Mid Plated: SUS301
Plating:
Gold flash over Nickel underplate overall
Electrical:
Current rating: 5 Amp For Collectively Power Supply (A1, A4, A9, A12, B1, B4, B9, B12)
          1.25 Amp For Vconn Pin
          0.25 Amp For Other Signal Pin
Contact resistance: 30 mohms
Insulation resistance: 100 Mohms
Dielectric withstanding voltage: 100 VAC
Mechanical:
Insert force: 5-20N
Extract force: 8-20N
Durability: 10,000 Cycles
Environmental:
Lead free, RoHS compliant

RoHS COMPLIANT

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

| INCHES | | HOLES | |
|---|---|---|---|
| .X | ± .10 | Øx | ±.10 |
| .XX | ± .020 | Øxx | ±.015 |
| .XXX | ± .015 | Øxxx | ±.010 |

| DRAWN | LH | 2/24/22 |
|---|---|---|
| CHECKED | LW | 2/24/22 |
| APPROVED | | |

TITLE
UNIVERSAL SERIAL BUS, TYPE C, DUAL PORT, FEMALE, RIGHT ANGLE

SIZE: X

PART NO. USB-C31-D-RA-CS2

REV. -

REF: S00165C-1  SCALE: NTS  SHEET 1 OF 1

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