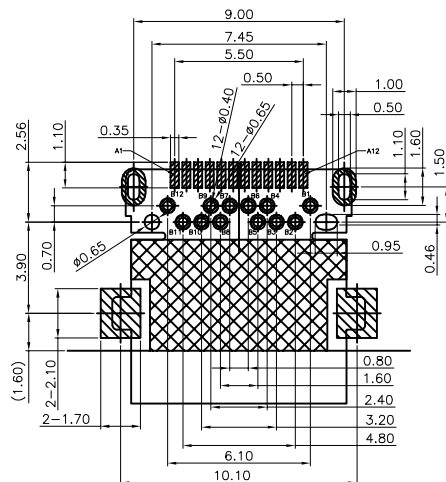


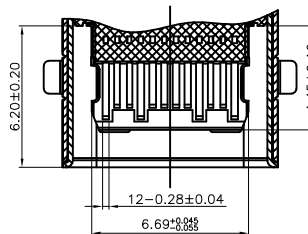
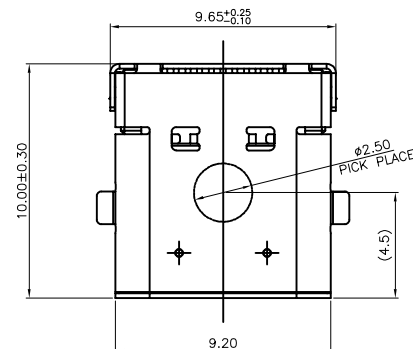
APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

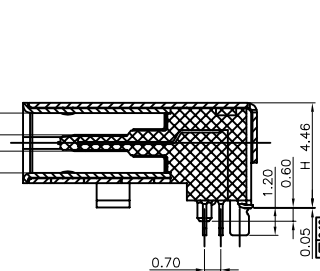
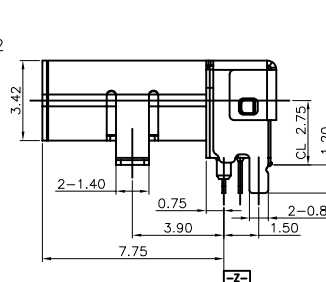
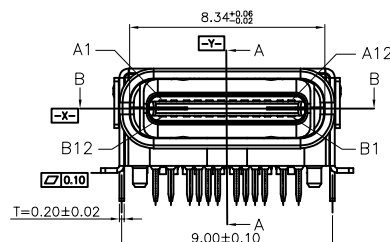
| Rev | AWO # | Description                   | Date     | Appr   |
|-----|-------|-------------------------------|----------|--------|
| -   |       | RELEASED                      | 10/25/18 |        |
| A   |       | FIXED DIMENSION ON PCB LAYOUT | 11/17/20 | SS     |
| B   |       | UPDATE DRAWING                | 11/17/25 | LH/OC  |
| C   |       | UPDATE TITLE                  | 5/11/26  | LW1/RC |



RECOMMEND P.C.B LAYOUT (COMPONENT SIDE)  
TOLERANCE FOR PCB LAYOUT IS ±0.05  
PAD AREA NO COPPER AREA  
KEEP OUT AREA GND PATTERN ONLY



SECTION B-B



SECTION A-A

### SPECIFICATIONS:

#### Material:

Insulator: Hi-temp thermoplastic, rated UL 94V-0

Insulator color: Black

Contacts: Copper alloy

Shell: Stainless steel, Nickel plated

Cover shell: Copper alloy, Nickel plated

Inner ground cover shell: Stainless Steel, Clean

Mid plate: Stainless Steel, Clean

#### Plating:

Gold flash over Nickel underplate on contact area,

Matte Tin over Nickel underplate on solder tails.

#### Electrical:

Current rating: 5 A (Power supply pin: A1, A4, A9, A12, B1, B4, B9, B12)

1.25 A (Vconn pin)

0.25 A (Other signal pin)

Contact resistance: 40 mohms max 10 mohms change after test,  
measure @ 20mV, 100 mA

Insulation resistance: 100 Mohms min.

Dielectric withstanding: 100 VAC RMS

#### Mechanical:

Insertion force: 5~20N

Withdrawal force: 6~20N After test

Durability: 10,000 Cycles

#### Temperature Rating:

Operating temperature: -40°C to +85°C

#### Environmental:

Lead free, RoHS compliant.



### PACKAGED ON TAPE & REEL

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS  
ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED

|    |             |       |      |
|----|-------------|-------|------|
| MM | X. ± 0.50   | ANGLE | ± 2° |
|    | .X ± 0.30   |       |      |
|    | .XX ± 0.20  |       |      |
|    | .XXX ± 0.10 |       |      |

DRAWN AY 10/25/18

CHECKED CK 10/25/18

APPROVED

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| Pin   | Signal Name | Mating Sequence | Pin   | Signal Name | Mating Sequence |
|-------|-------------|-----------------|-------|-------------|-----------------|
| A1    | GND         | First           | B12   | GND         | First           |
| A2    | SSTXp1      | Second          | B11   | SSRXp1      | Second          |
| A3    | SSTXn1      | Second          | B10   | SSRXn1      | Second          |
| A4    | Vbus        | First           | B9    | Vbus        | First           |
| A5    | CC1         | Second          | B8    | SBU2        | Second          |
| A6    | Dp1         | Second          | B7    | Dn2         | Second          |
| A7    | Dn1         | Second          | B6    | Dp2         | Second          |
| A8    | SBU1        | Second          | B5    | CC2         | Second          |
| A9    | Vbus        | First           | B4    | Vbus        | First           |
| A10   | SSRXn2      | Second          | B3    | SSTXn2      | Second          |
| A11   | SSRXp2      | Second          | B2    | SSTXp2      | Second          |
| A12   | GND         | First           | B1    | GND         | First           |
| SHELL | GND         |                 | SHELL | GND         |                 |

**ADAM**  
**TECH**

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Union, NJ 07083  
Phone: 908-687-5000  
adam-tech.com

TITLE UNIVERSAL SERIAL BUS, TYPE C, FEMALE,  
RIGHT ANGLE, CL2.75 H4.46mm HYBRID TYPE  
TRANSMISSION EFFICIENCY: USB 3.2 Gen 2x2 (20Gb/s)

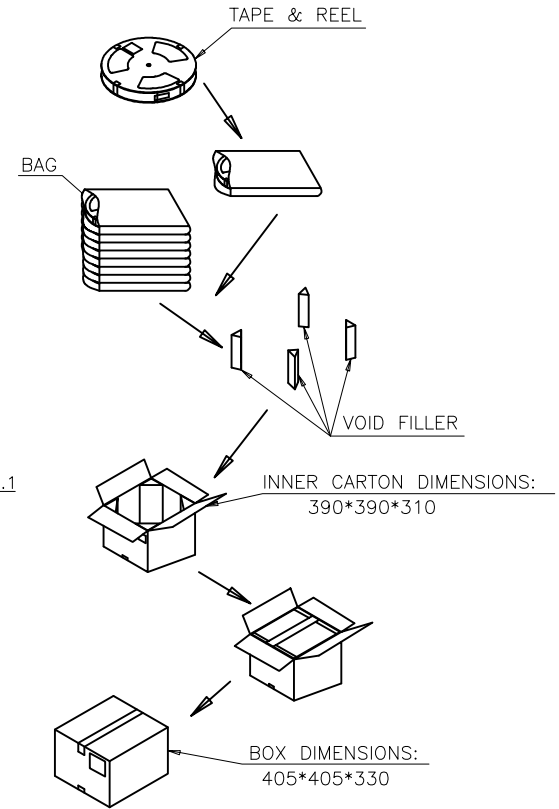
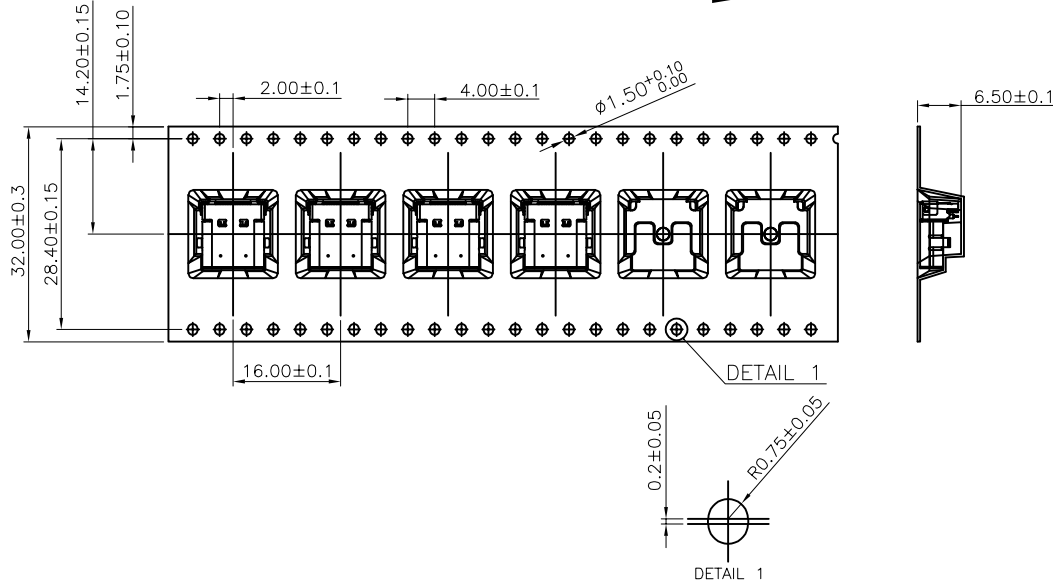
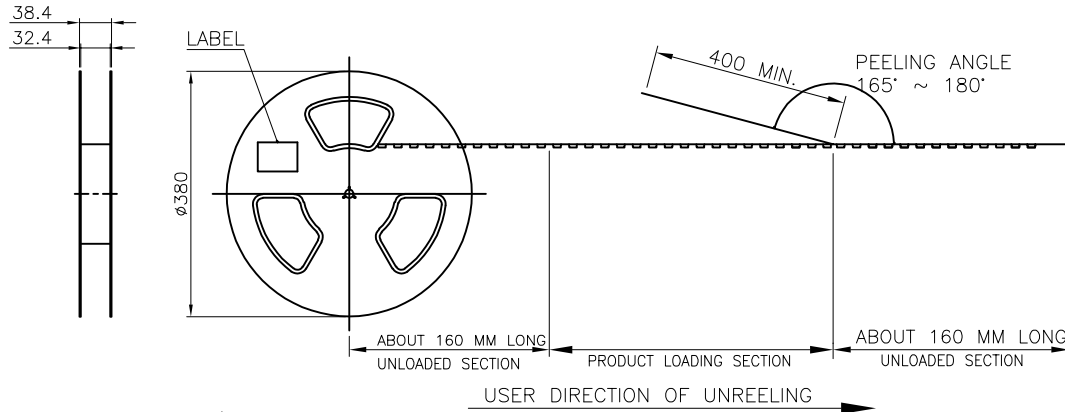
SIZE X PART NO. USB-C31-S-RA-CS1E-BK-T/R REV. C

REF: S00296T SCALE: NTS SHEET 1 OF 2

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

| Rev                         | AWO # | Description | Date | Appr |
|-----------------------------|-------|-------------|------|------|
| SEE SHT 1 OF 2 FOR REVISION |       |             |      |      |



NOTE:

1.MATERIAL:

BOX: FIBREBOARD, CORRUGATED, DOUBLE WALL  
TAPE: POLYSTYRENES, HEAT-RESISTANT TEMPERATURE: 120°C, BLACK COLOR.  
REEL: POLYSTYRENES, HEAT-RESISTANT TEMPERATURE: 70°C, BLUE COLOR.  
BAG: POLYETHYLENE, HEAT-RESISTANT TEMPERATURE: 100°C.

2.PEELING STRENGTH: 0.1 ~ 1.3 N (10 ~ 130 GRAMS)

3.PEELING SPEED: 300 mm/min.

4.EACH BAG SHALL BE INCLUDED DESICCANT.

Unit: mm

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS  
ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED

|    |             |       |      |
|----|-------------|-------|------|
| MM | X. ± 0.50   | ANGLE | ± 2° |
|    | .X ± 0.30   |       |      |
|    | .XX ± 0.20  |       |      |
|    | .XXX ± 0.10 |       |      |

|          |    |          |
|----------|----|----------|
| DRAWN    | AY | 10/25/18 |
| CHECKED  | CK | 10/25/18 |
| APPROVED |    |          |

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|              |                  |          |                 |               |
|--------------|------------------|----------|-----------------|---------------|
| 800          | 8                | 6400 PCS | -- KG           | -- KG         |
| PCS/<br>REEL | REELS/<br>CARTON | QUANTITY | GROSS<br>WEIGHT | NET<br>WEIGHT |

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TRANSMISSION EFFICIENCY: USB 3.2 Gen 2x2 (20Gb/s)

|              |                                      |              |
|--------------|--------------------------------------|--------------|
| SIZE<br>X    | PART NO.<br>USB-C31-S-RA-CS1E-BK-T/R | REV.<br>C    |
| REF: S00296T | SCALE: NTS                           | SHEET 2 OF 2 |