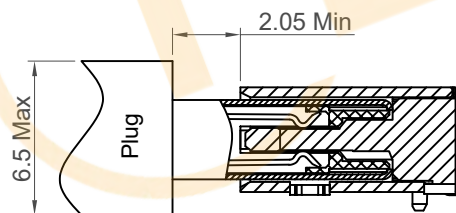
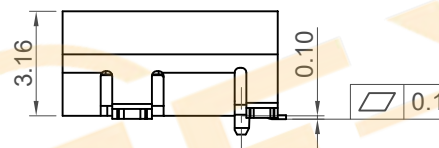
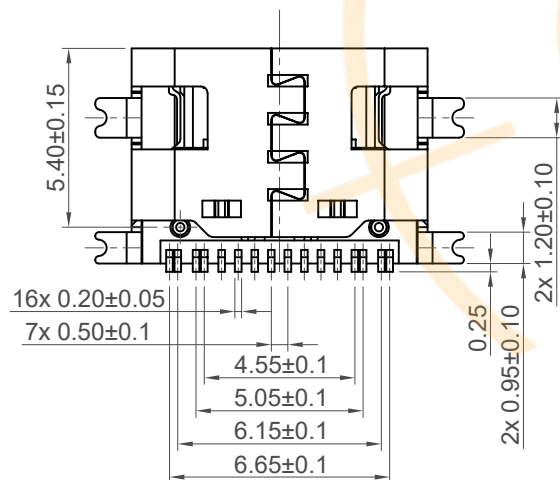
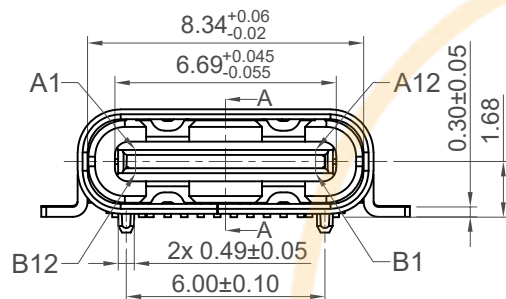
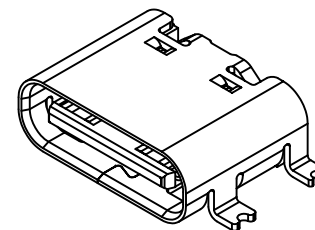


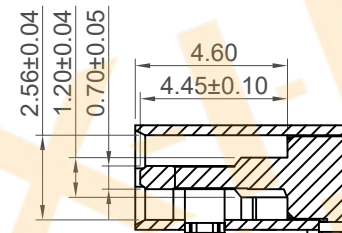
#### Recommended PCB Layout

As viewed from component side Tolerance: ±0.05mm

■ Solder Area □ Component Outline



Plug and Receptacle Mating View



Section: A-A

#### Ordering Grid

USB4216-03-A Request Samples and Quotation

Contact Plating: 03 = 3μ" Gold

Packing Options: A = Tape & Reel (1200pcs per reel)

| Pin   | Signal | Mating Sequence | Pin   | Signal | Mating Sequence |
|-------|--------|-----------------|-------|--------|-----------------|
| A1    | GND    | First           | B12   | GND    | First           |
| 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           |
| A12   | GND    | First           | B1    | GND    | First           |
| SHELL | GND    |                 | SHELL | GND    |                 |

#### Specifications

##### Material

Insulator: PA9T, UL 94V-0, Black

Terminal: Copper Alloy

Shell: Stainless steel

Mid Plate: Stainless Steel

##### Plating

##### Terminal:

Contact Area: 3μ" Gold

Solder Tails: Gold Flash

Underplating: 50μ" min. Nickel All Over

Shell: 30μ" min. Nickel

Mid Plate: Clear

##### Electrical

Current Rating: 5.00A collectively for Vbus pins  
6.25A collectively for GND pins  
1.25A for A5/B5 pin  
0.25A per pin for all other pins

Voltage Rating: 48V DC

Power Rating: 240W

Contact Resistance: 40mΩ max. initial.

50mΩ max. after test

Dielectric Withstanding Voltage: 100V AC

Insulation Resistance 100MΩ min.

##### Mechanical & Environmental

Operating Temperature: -25°C to +85°C

Mating Force: 5 to 20 N.

Unmated Force: 6 to 20 N after test

Durability: 20,000 cycles

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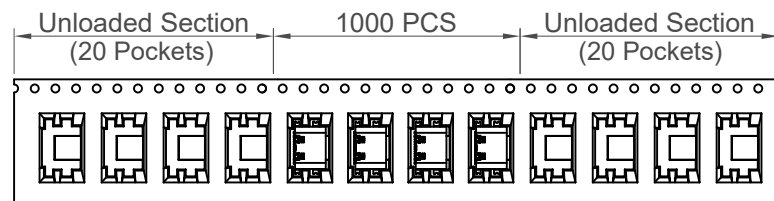
[www.texim-europe.com](http://www.texim-europe.com)

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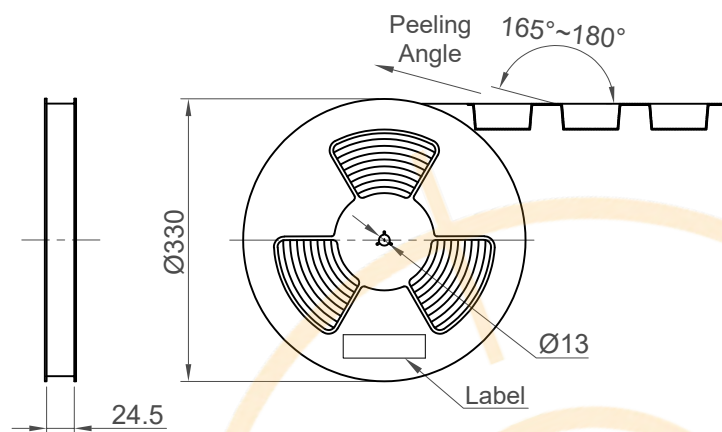


|              |                 |   |  |
|--------------|-----------------|---|--|
| Part Number  |                 | Product Description   |  |
| USB4216      |                 | USB Type C Receptacle for USB 2.0, SMT Type, PCB Top Mount, Horizontal, 16Pin |  |
| Drawing Date |                 | 14th February 2025  |  |
| By           | KY              | Tolerances (Except as Noted)  | Units:   |
| Detail       | Drawing Release | Length  | Angle  |
| Revision     | A1              | X.X ± 0.30  | °  |
| Date         | 12/03/25        | X.XX ± 0.25   | °  |
|              |                 | X.XXX ± 0.10  | °  |
|              |                 | ±3°   | 3rd Angle Projection   |
|              |                 |   | RoHS COMPLIANT 2011/65/EU  |
|              |                 |   | This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE |
|              |                 |   | Not to Scale   |
|              |                 |   | Drawn By KY  |
|              |                 |   | Sheet No. 1/2  |

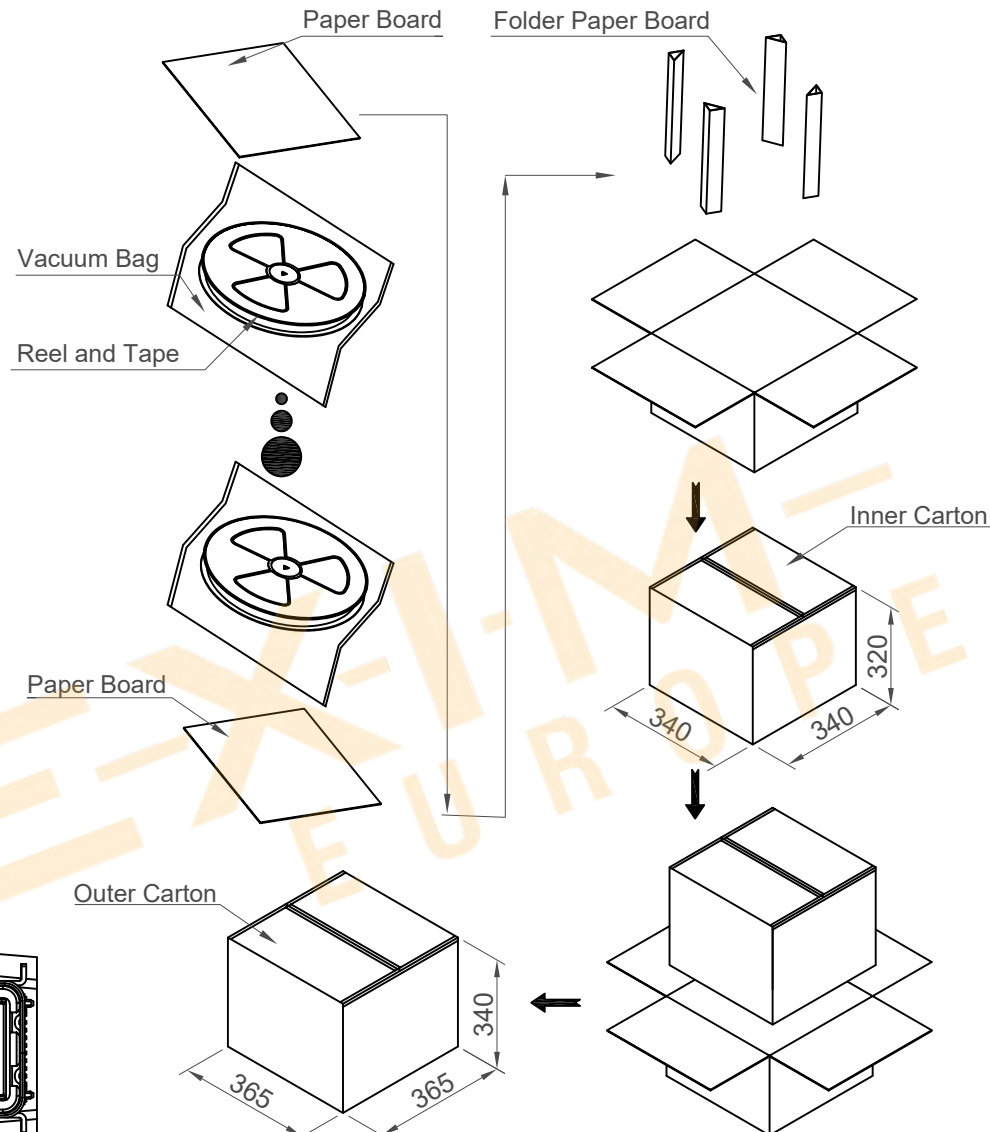
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Direction of Unreeling →



Direction of Unreeling →







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| Pcs / Reel | Reels / Carton | Total Quantity |
|------------|----------------|----------------|
| 1000       | 10             | 10000 pcs      |

|                    |                 |  |       |  |   |   |              |                |                 |
|--------------------|-----------------|--|-------|--|---|---|--------------|----------------|-----------------|
| Part Number        |                 | Product Description  |       |  |   | <div><br/>www.gct.co</div> |              |                |                 |
| USB4216            |                 | USB Type C Receptacle for USB 2.0, SMT Type,<br>PCB Top Mount, Horizontal, 16Pin |       |  |   |   |              |                |                 |
| Drawing Date       |                 |  |       |  |   |   |              |                |                 |
| 14th February 2024 |                 |  |       |  |   |   |              |                |                 |
| By                 | KY              | Tolerances (Except as Noted)   |       | Units:   | <div>This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT).<br/>This drawing must not be copied or disclosed without written consent. E &amp; OE</div> |   |              |                |                 |
| Detail             | Drawing Release | Length   | Angle | Metric (mm)  |   |   |              |                |                 |
| Revision           | A1              | -  | -     | <div>3rd Angle Projection</div>                   |   |   |              |                |                 |
| Date               | 12/03/25        |  |       | <div>RoHS COMPLIANT 2011/05/EU<br/>Deca-BDE</div> | <div></div>  |   | Not to Scale | Drawn By<br>KY | Sheet No<br>2/2 |

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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.



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