

Plug and Receptacle Mating View

Specifications

Material

Insulator: LCP, UL 94V-0, Black
 Contact: Copper Alloy
 Shell: Stainless Steel
 Mid Plate: Stainless Steel

Plating

Contact

Contact Area: Gold Flash
 Solder Tails: Gold Flash
 Underplating: 50µm min. Nickel
 Shell: 80µm 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: -55°C to +85°C
 Mating Force: 5 to 20 N.
 Unmated Force: 6 to 20 N after test
 Durability: 20,000 cycles

Ordering Grid

USB4205 = GF = A

Contact Plating
 GF = Gold Flash

Packing Options
 A = Tape & Reel
 (400pcs/Reel)

Part Number
USB4205

Drawing Date
6th March 2024

By
CC

Detail
Release

Revision
A

Date
06/03/24

Product Description
Type C Receptacle For USB2.0, Dual Row SMT,
Flag Type, PCB Top Mount, 16 Pin

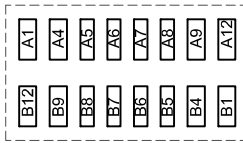
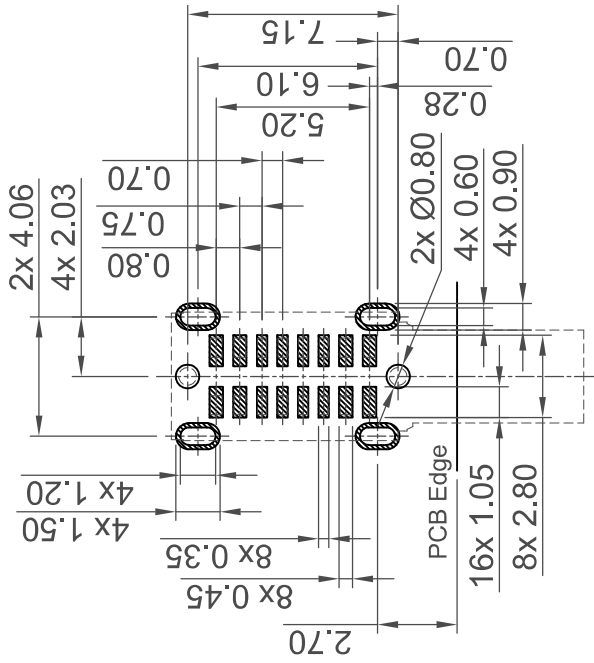
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ROHS COMPLIANT
SOLDERABLE
Lead-Free

Units:
Metric (mm)

Tolerances (Except as noted)
XX ± 0.30
X.XX ± 0.15
X.XXX ± 0.10

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Pin Assignment

Recommended PCB Layout

Thickness: 1.60mm

Tolerance: ±0.05mm

☐ Solder Area ☐ Component Outline

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

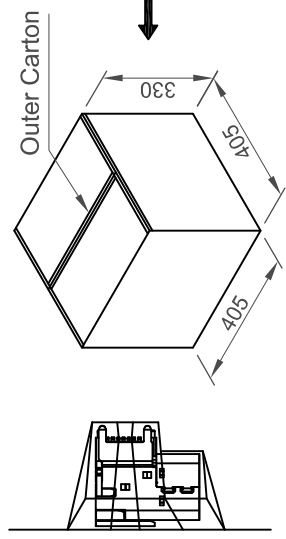
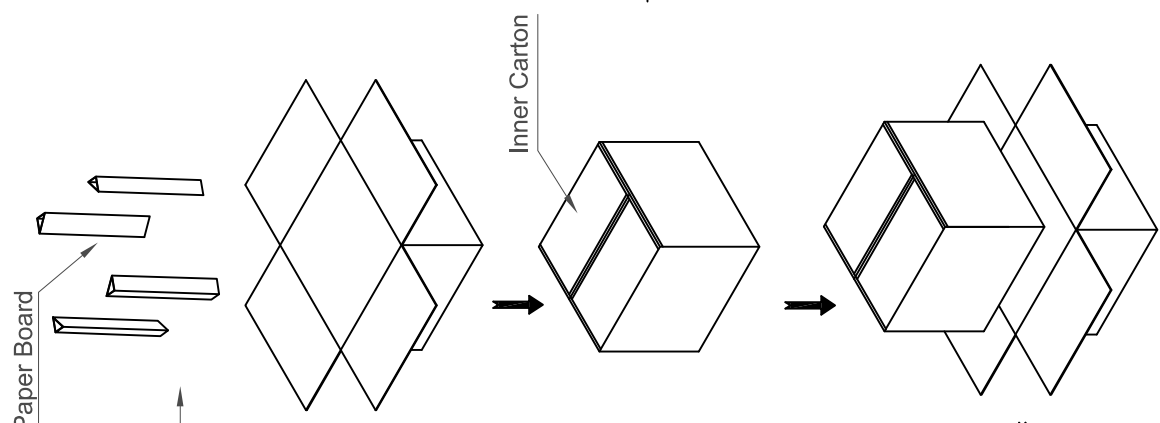
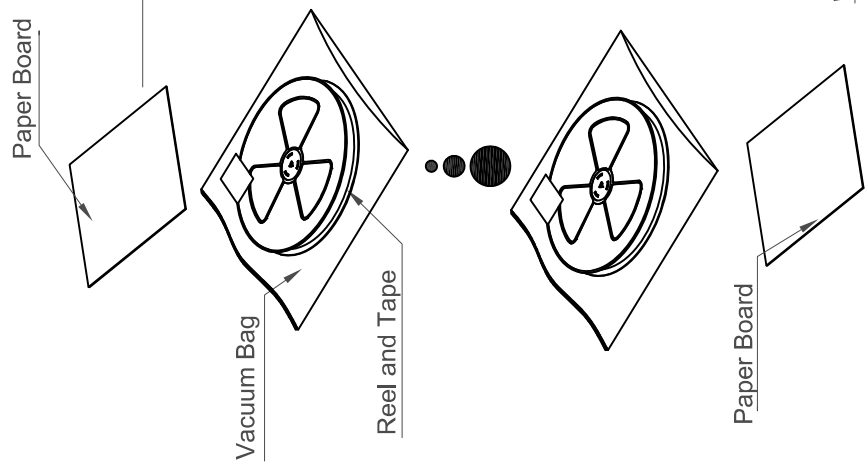
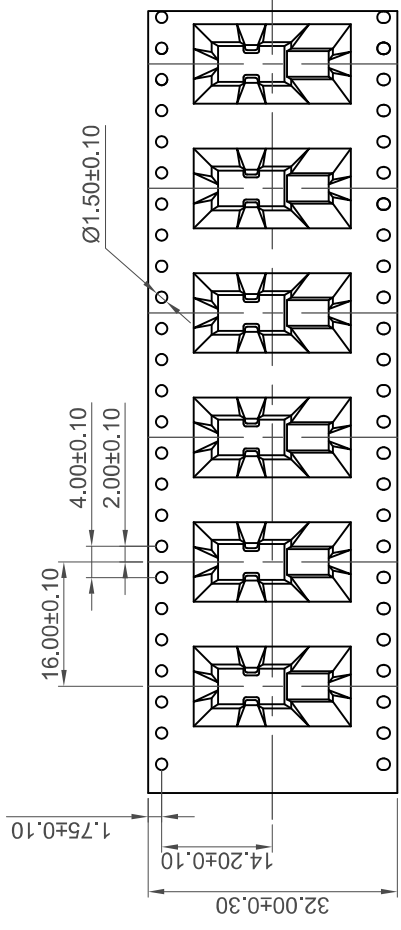
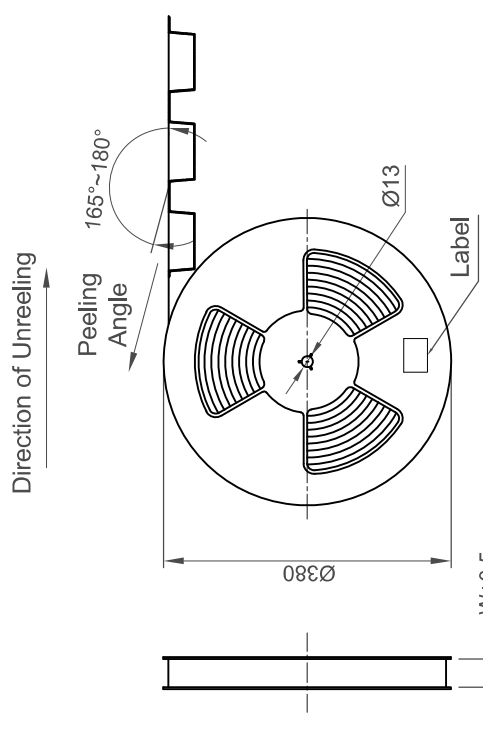
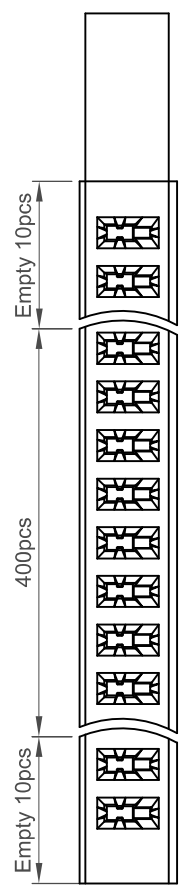
Part Number USB4205		Product Description Type C Receptacle For USB2.0, Dual Row SMT, Flag Type, PCB Top Mount, 16 Pin	
Drawing Date 6th March 2024		This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). It is to be used as a reference only or disclosed without written consent. E & OE	
By CC	Tolerances (Except as noted) Length XX ± 0.30 X.XX ± 0.15 X.XXX ± 0.10	Units: Metric (mm)	Sheet No. 2/3
Detail Release A	RoHS COMPLIANT 2011/65/EU Check one of	Not to Scale	Drawn By CC
Revision Date 06/03/24	3rd Angle Projection	8	



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CC

Sheet No.
2/3



Direction of Unreeling →

Pcs / Reel	Reels / Carton	Total Quantity
400	8	3200 pcs

Part Number		Product Description	
USB4205		Type C Receptacle For USB2.0, Dual Row SMT, Flag Type, PCB Top Mount, 16 Pin	
Drawing Date		6th March 2024	
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Drawing Release		A	
Detail Revision		06/03/24	
Date		06/03/24	
Tolerances (Except as noted)		Units: Metric (mm)	
Length		X.X ± 0.30	
Angle		X.XX ± 0.15	
Radius		X.XXX ± 0.10	
Other		X.XXX ± 0.10	
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