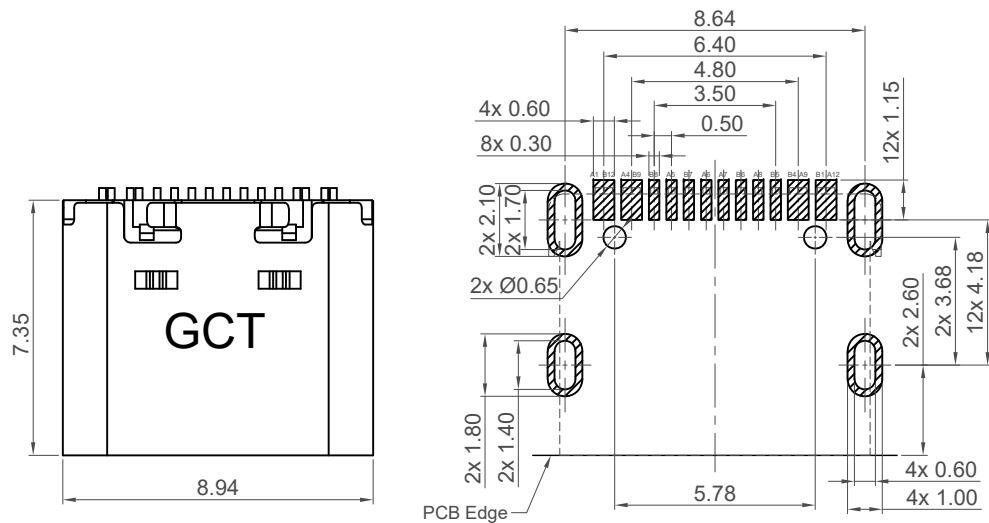


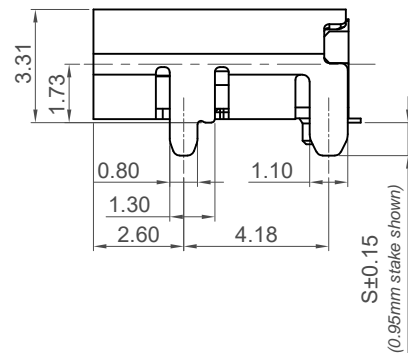
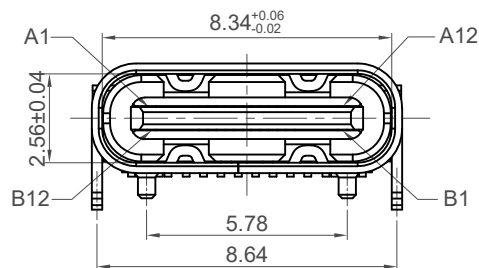
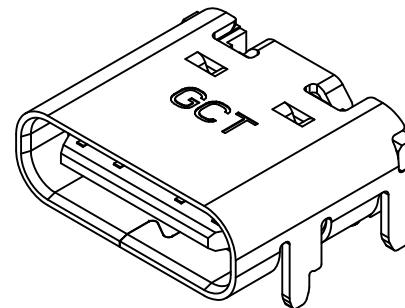
H
G
F
E
D
C
B
A



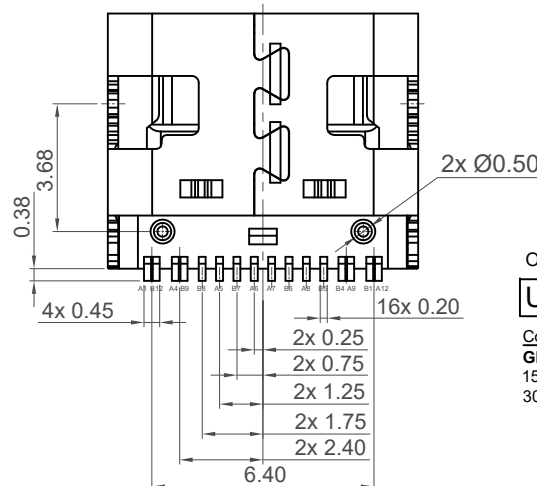
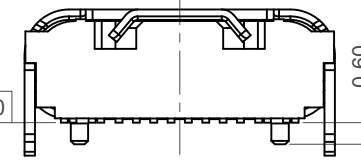
Recommended PCB Layout

As viewed from component side Tolerance: $\pm 0.05\text{mm}$

▨ Solder Area □ Component Outline



0.10



Ordering Grid

USB4105 - XX - A - XXX

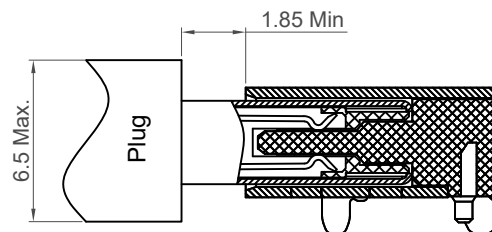
Request Samples and Quotation

Contact Plating
GF = Gold Flash (standard)
15 = 15 μ m Gold
060 = 0.60mm
30 = 30 μ m Gold

Shell Stake Length "S"
Blank = 0.95mm
120 = 1.20mm

Packing Options
A = Tape & Reel

Plug and Receptacle Mating View



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			SHELL		
GND			GND		

Specifications

Material

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

Plating

Contact:
Contact Area: See Ordering Grid
Solder Tails: Gold Flash
Underplating: 50 μ m min. Nickel All Over
Shell: 30 μ m 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

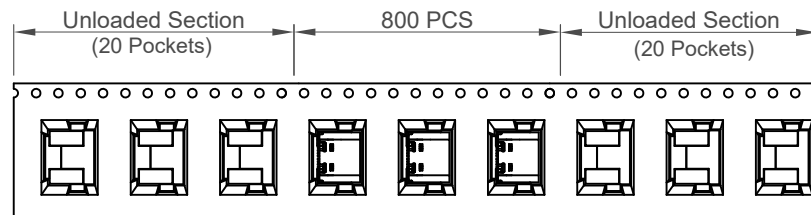
Contact Resistance: 40m Ω max. initial.
50m Ω max. after test

Dielectric Withstanding Voltage: 100V AC
Insulation Resistance 100M Ω min.

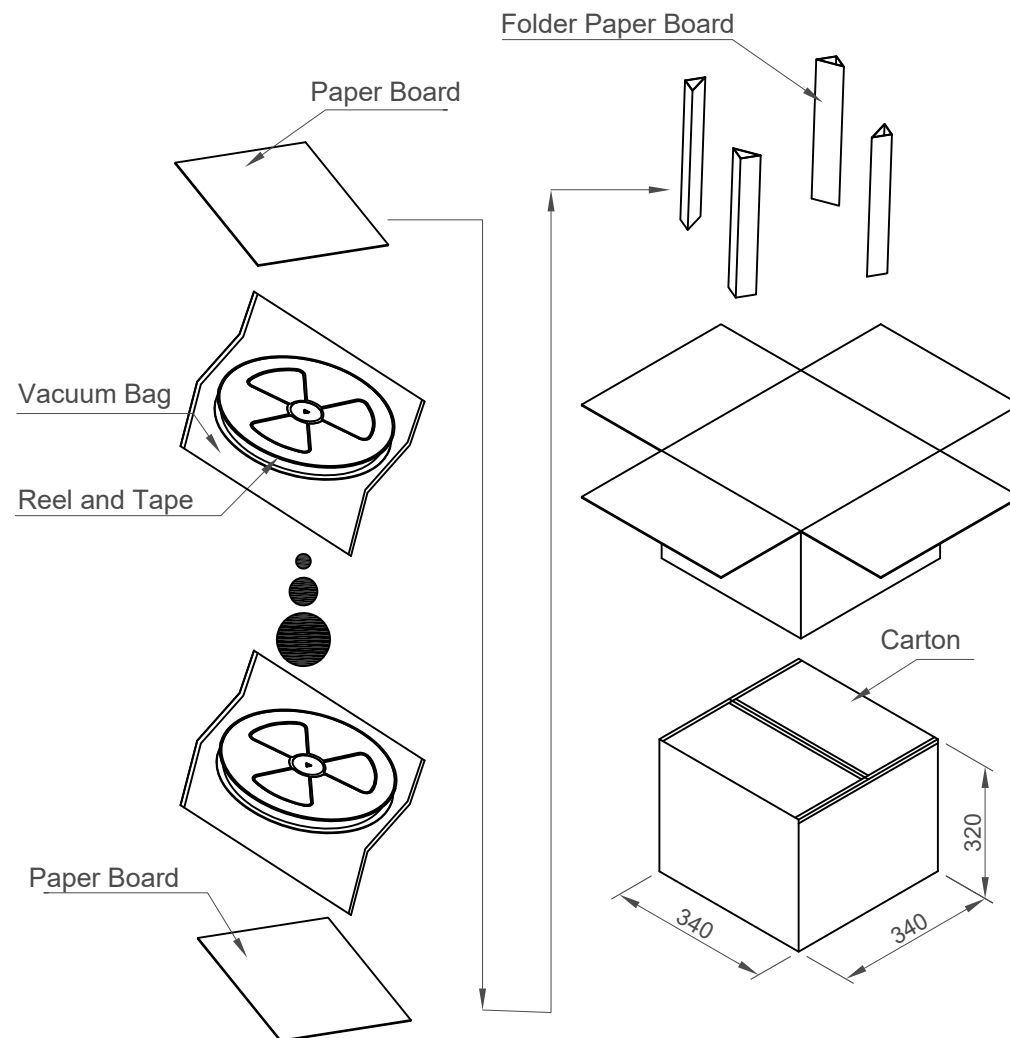
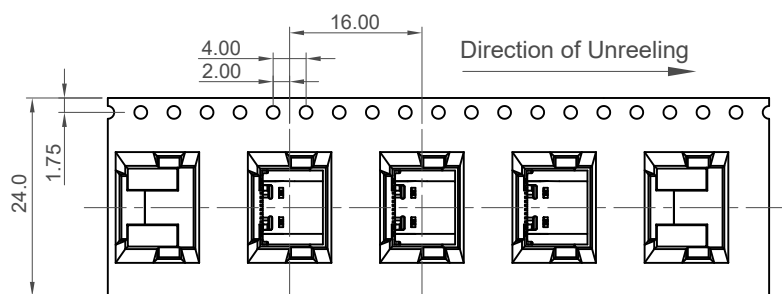
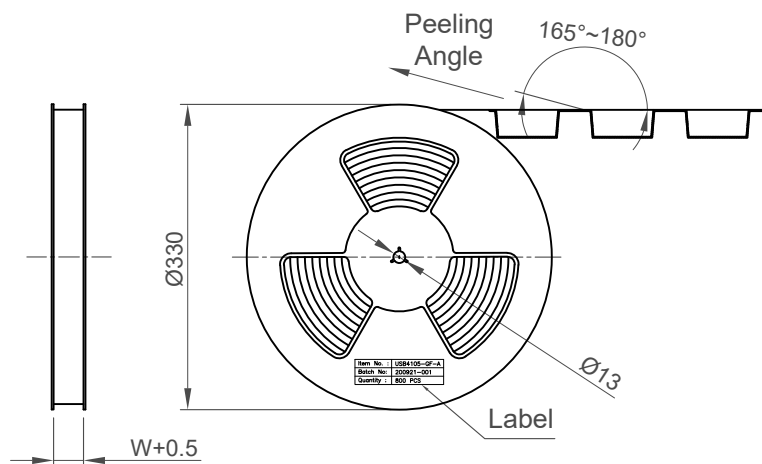
Mechanical & Environmental

Operating Temperature: -40°C to +85°C
Mating Force: 5 to 20 N.
Unmated Force: 6 to 20 N after test
Durability: 20,000 cycles

Part Number		Product Description				<div> www.gct.co</div>			
USB4105		USB Type C Receptacle for USB 2.0							
Drawing Date		SMT Type, PCB Top Mount							
4th October 2019									
By	CC	Tolerances (Except as Noted)		Units:	<div> </div>	<div>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</div>			
Detail	USB4105 B PCN	Length Angle		Metric (mm)					
Revision	B4	X. ± 0.38 X.X ± 0.30 X.XX ± 0.15 X.XXX ± 0.10		X. ± 2° X.X ± 1°					
Date	18/12/23			<div> 3rd Angle Projection</div>					
							Not to Scale	Drawn By CC	Sheet No. 1/2



Direction of Unreeling



Pcs / Reel	Reels / Carton	Total Quantity
800	10	8000 pcs

Part Number USB4105		Product Description USB Type C Receptacle for USB 2.0 SMT Type, PCB Top Mount	
Drawing Date 4th October 2019			
By CC		Tolerances (Except as Noted)	Units: Metric (mm)
Detail USB4105 B PCN		Length	Angle
Revision B4		-	-
Date 18/12/23			



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Not to Scale
Drawn By
CC
Sheet No.
2/2

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[USB4105-15-A](#) [USB4105-15-A-060](#) [USB4105-15-A-120](#)