

Specifications

Material

Insulator: LCP, UL 94V-0, Black
 Contact: Copper Alloy (C1814), T=0.12mm
 Mid Plate: Stainless Steel (SUS301), T=0.15mm
 Shell: Stainless Steel (SUS304), T=0.30mm

Plating

Contact
 Contact Area: 3u" Au over 50µ" min. Nickel
 Solder Tails: Gold Flash over 50µ" min. Nickel
Shell: 30µ" min. Nickel
Mid Plate: Cleaning

Electrical

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

Voltage Rating: 20V DC
Contact Resistance: 40mΩ max initial.
 50mΩ max after test
Dielectric Withstanding Voltage: 100V AC
Insulation Resistance: 100MΩ min

Mechanical & Environmental

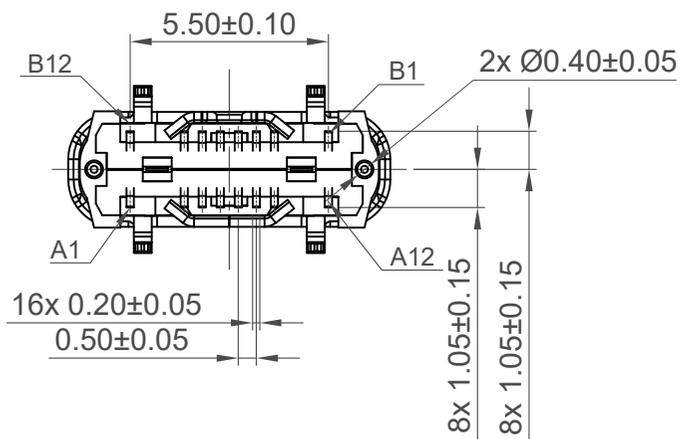
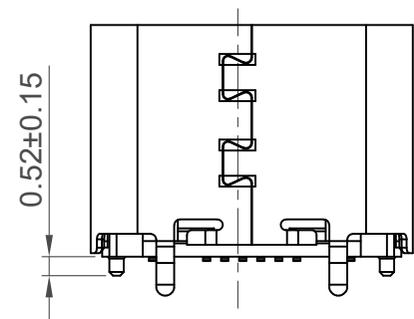
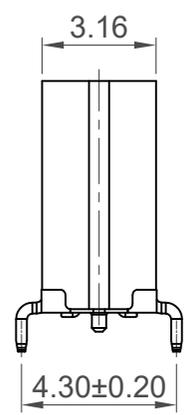
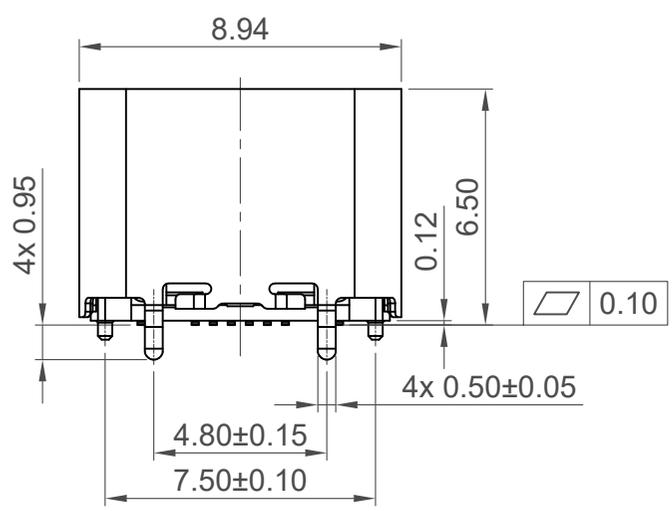
Operating Temperature: -25°C to +85°C
Mating Force: 5 to 20 N.
Unmated Force: 6 to 20 N after test
Durability: 10,000 cycles

Ordering Grid

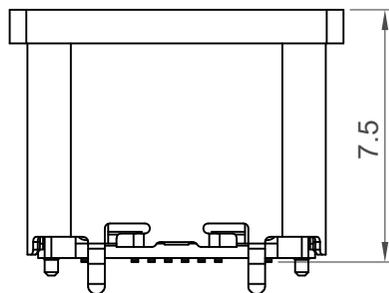
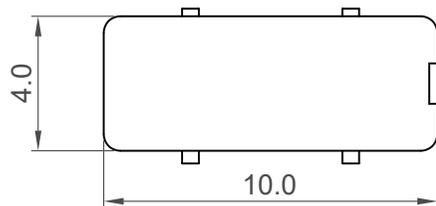
USB4120 -
 03 -
 C
Request Samples and Quotation

Contact Plating
 03 = 3u" Gold

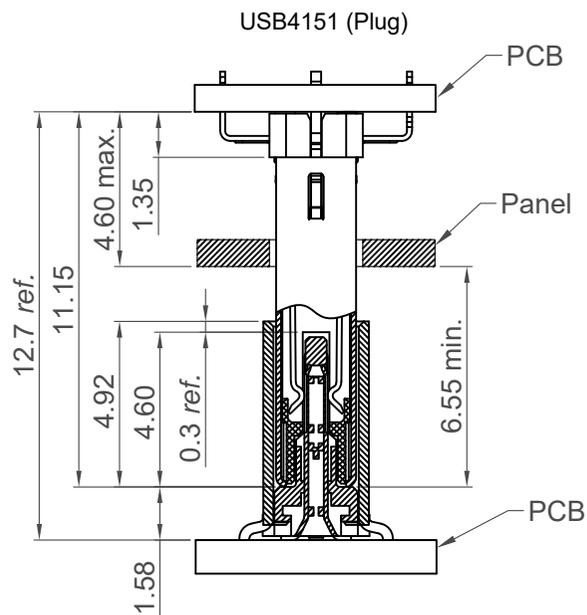
Packing Options
 C = Tape & Reel with Cap (600 per reel)



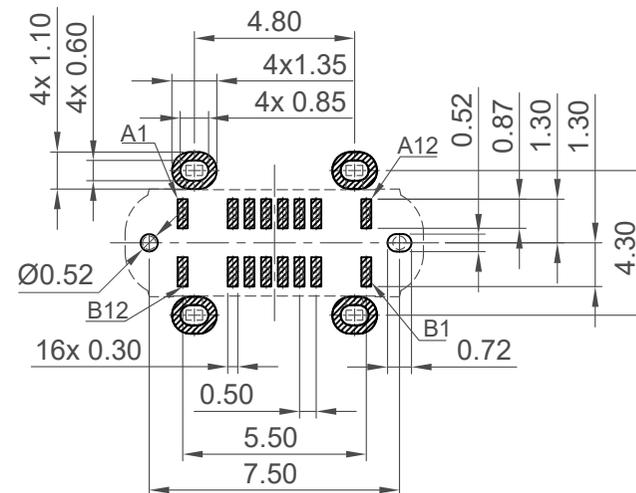
Part Number		Product Description		 www.gct.co
USB4120		USB 2.0 Type C Receptacle, 16contacts, Vertical, SMT, H=6.5mm		
Drawing Date		28th September 2020		
By	CC	Tolerances (Except as Noted)	Units:	 <small>This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE</small>
Detail	Drawing Release	Length X.X ± 0.30	Metric (mm)	
Revision	A2	Angle X.XX ± 0.25		
Date	01/11/21	X.XXX ± 0.10		
Not to Scale		Drawn By	CC	Sheet No. 1/3



Cap Information



USB4120 (Receptacle)
Plug and Receptacle Mating View

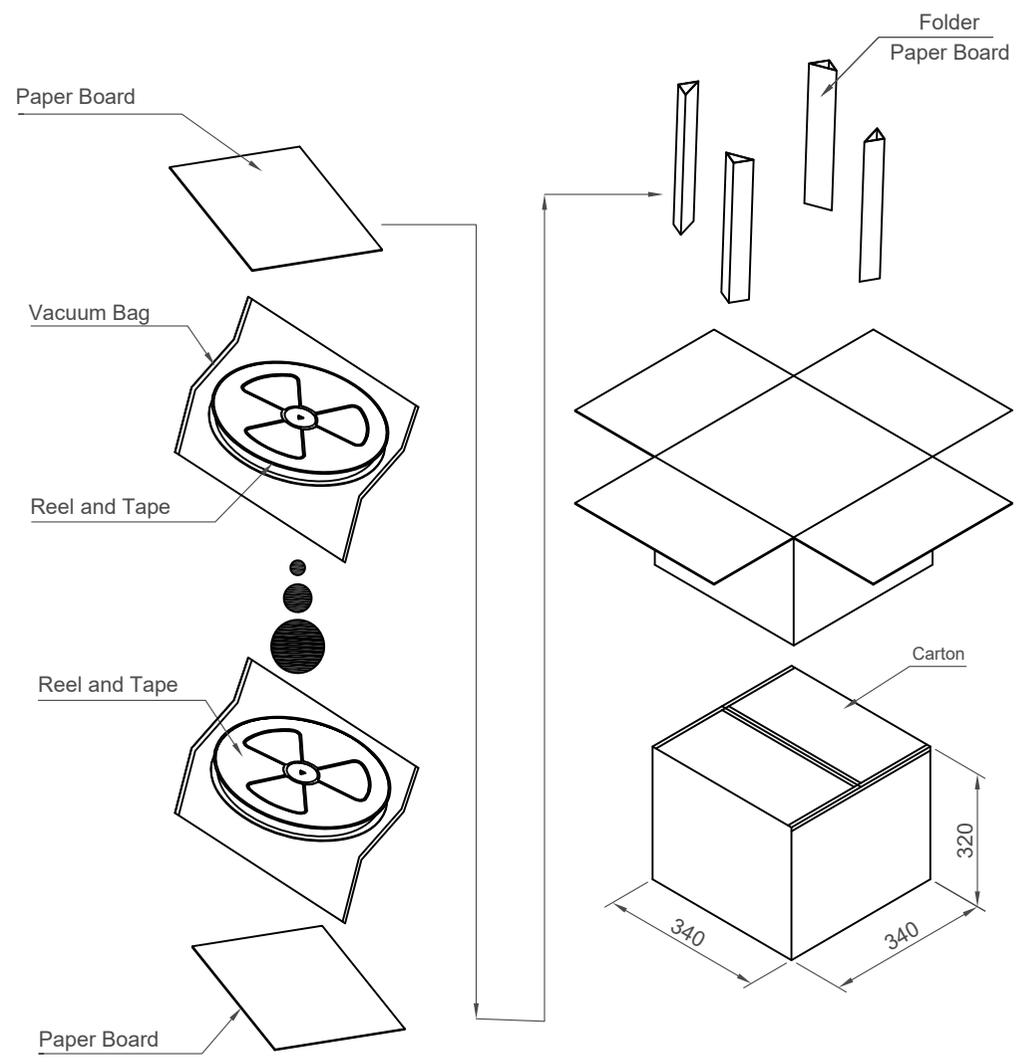
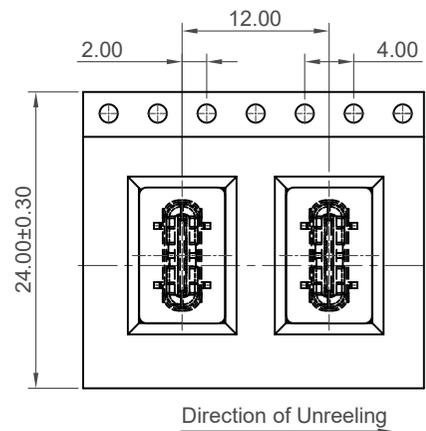
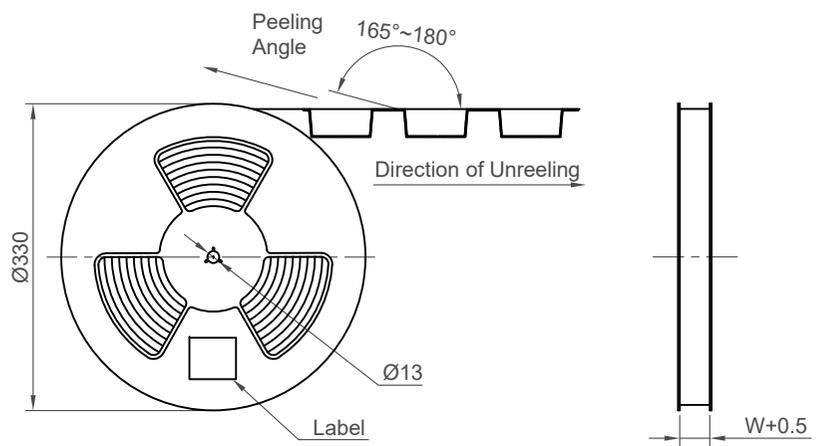
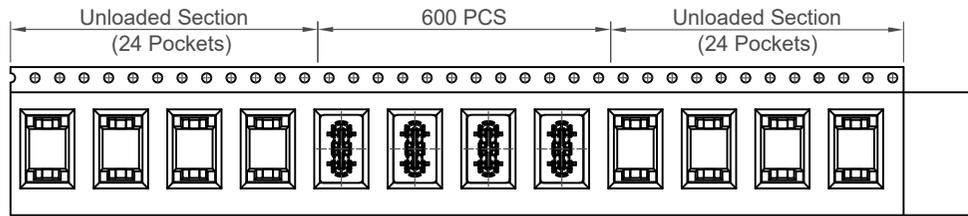


Recommended PCB Layout
Thickness 1.00±0.10mm
Tolerance: ±0.05mm

▨ Solder Area □ Component Outline

Pin	Signal	Mating Sequence	Pin	Signal	Mating Sequence
A1	GND	First	B12	GND	First
A4	V _{bus}	First	B9	V _{bus}	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	V _{bus}	First	B4	V _{bus}	First
A12	GND	First	B1	GND	First
SHELL		GND	SHELL		GND

Part Number USB4120		Product Description USB 2.0 Type C Receptacle, 16contacts, Vertical, SMT, H=6.5mm		 www.gct.co
Drawing Date 28th September 2020				
By CC	Detail Drawing Release	Tolerances (Except as Noted) Length X.X ± 0.30 X.XX ± 0.25 X.XXX ± 0.10	Units: Metric (mm)	
Revision A2	Date 01/11/21		 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 CC Sheet No. 2/3



Pcs / Reel	Reels / Carton	Total Quantity
600	10	6,000 pcs

Part Number		Product Description	
USB4120		USB 2.0 Type C Receptacle, 16contacts, Vertical, SMT, H=6.5mm	
Drawing Date		28th September 2020	
By	CC	Tolerances (Except as Noted)	Units:
Detail	Drawing Release	Length	Metric (mm)
Revision	A2	X.X ± 0.30	 3rd Angle Projection
Date	01/11/21	X.XX ± 0.25	
		X.XXX ± 0.10	



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