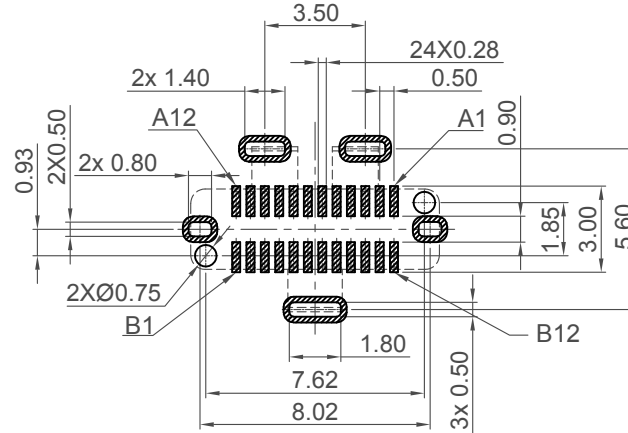


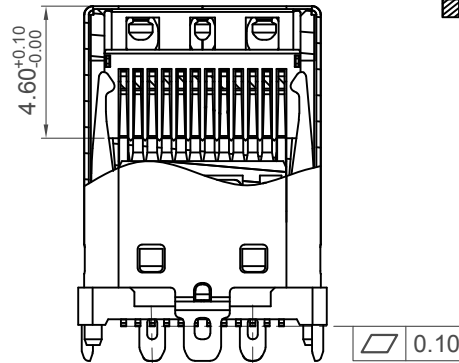
Section A-A



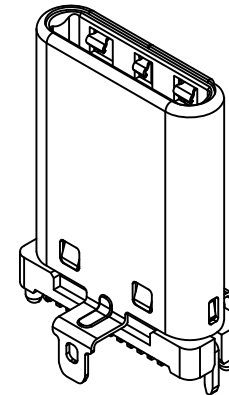
Recommended PCB Layout

Thickness 0.8±0.10mm
Tolerance: ±0.05mm

Solder Area Component Outline



Section B-B



Ordering Grid

USB4151 - **GF** - **C** [Request Samples and Quotation](#)

Contact Plating
GF = Gold Flash

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

Pin	Signal	Mating Sequence	Pin	Signal	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	

Specifications

Material

Insulator: LCP, UL 94V-0, Black
Contact: C7025, T=0.15mm
Shell: SUS304, T=0.15mm
Latch: SUS301, T=0.30mm
Spring: SUS304, T=0.10mm

Plating

Contact
Contact Area: Gold Flash over 50µ" min. Nickel
Solder Tails: 80µ" min. Matte Tin over 50µ" min. Nickel
Shell: 50µ" min. Nickel
Latch: 80µ" min. Tin
Spring: 50µ" min. Nickel

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

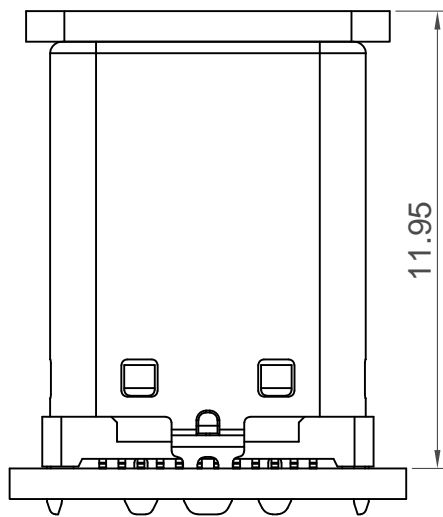
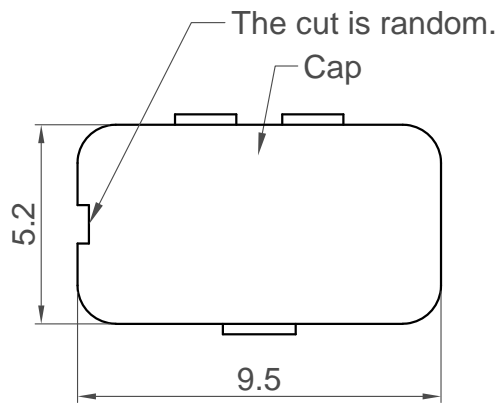
Dielectric Withstanding Voltage: 100V AC

Insulation Resistance 100MΩ min

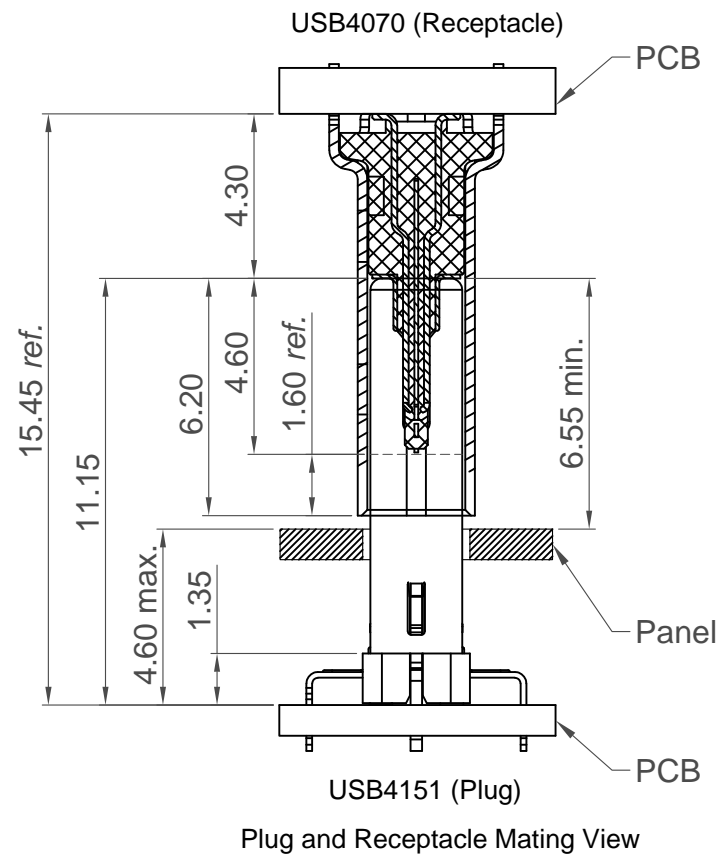
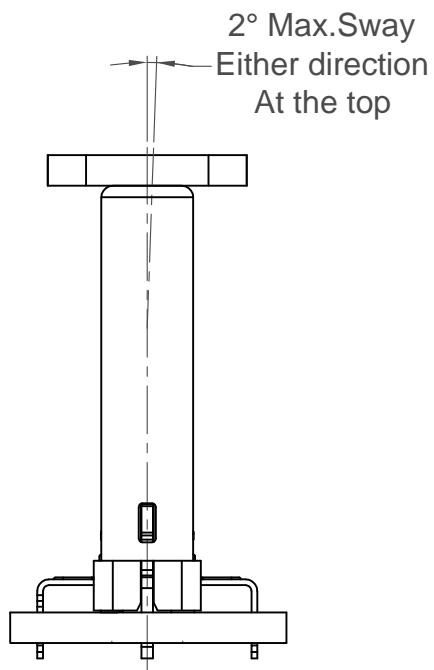
Mechanical & Environmental

Operating Temperature: -40°C to +85°C
Mating Force: 5 to 20 N.
Unmated Force: 6 to 20 N after test
Durability: 10,000 cycles

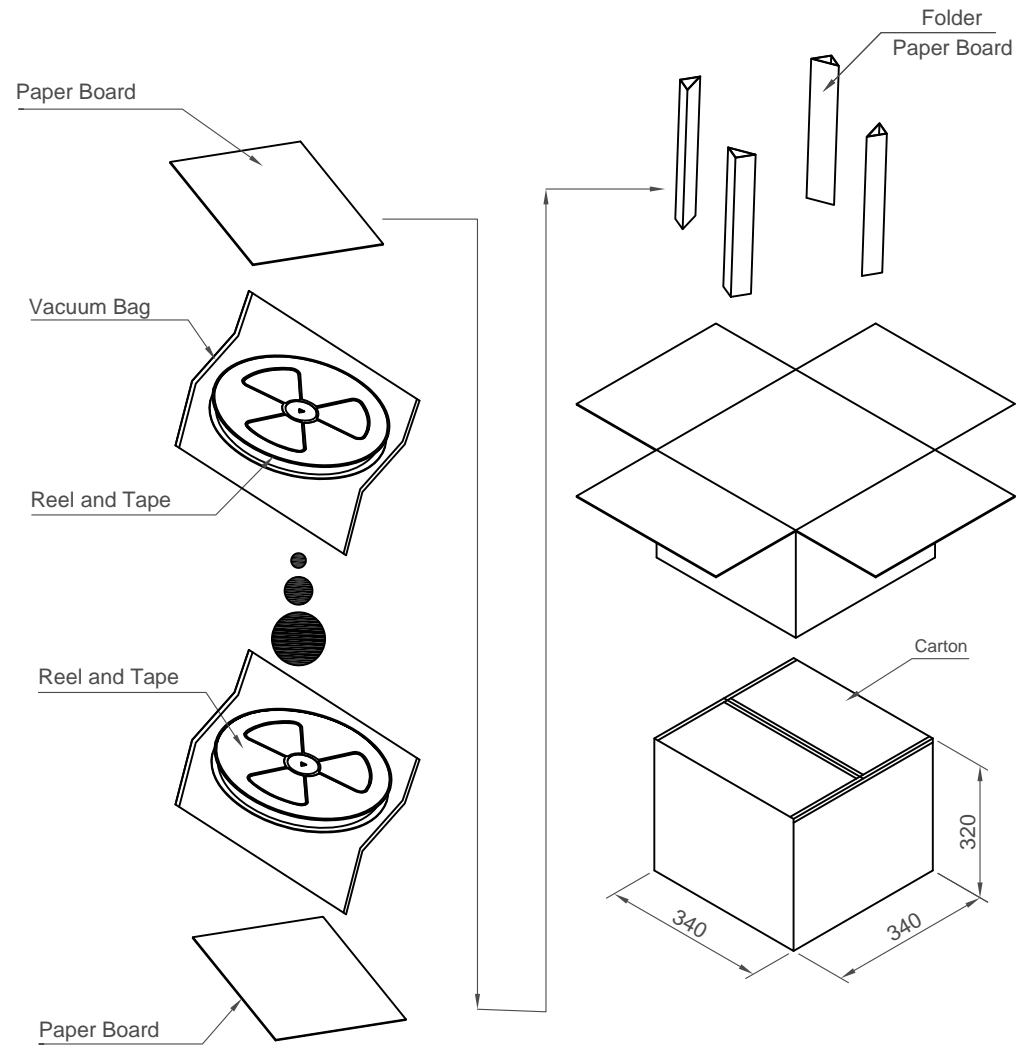
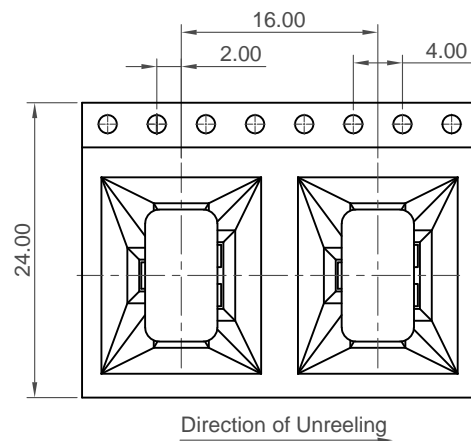
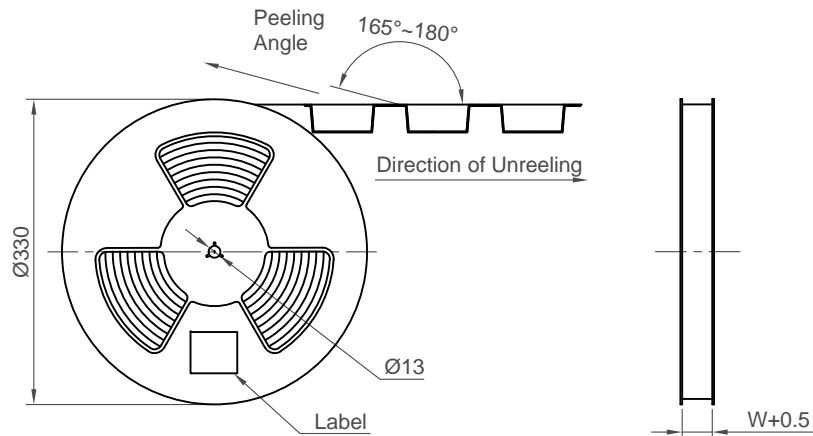
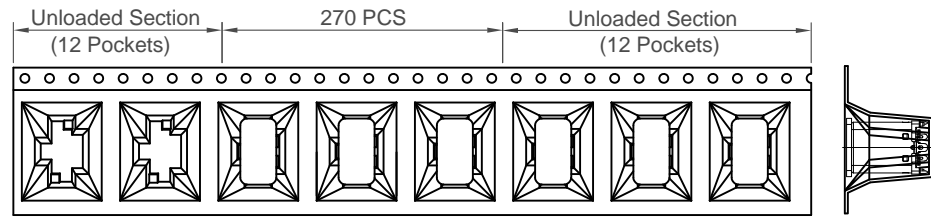
Part Number		Product Description			 www.gct.co
USB4151		USB3.1 Type C Plug, Vertical, SMT			
Drawing Date		14th January 2020			
By	CC	Tolerances (Except as Noted)	Units:	 3rd Angle Projection	 This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE
Detail	Drawing Release	Length	Angle		
Revision	A2	X.X ± 0.30			
Date	07/09/20	X.XX ± 0.25			
		X.XXX ± 0.10			
Not to Scale		Drawn By	CC	Sheet No. 1/3	



PCB Mount&Cap Information



Part Number		Product Description		GCT www.gct.co
USB4151		USB3.1 Type C Plug,Vertical, SMT		
Drawing Date		14th January 2020		
By	CC	Tolerances (Except as Noted)	Units:	 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
Detail	Drawing Release	Length	Angle	
Revision	A2	X.X ± 0.30	-	
Date	07/09/20	X.XX ± 0.25		
		X.XXX ± 0.10		
		 3rd Angle Projection		
				Not to Scale
				Drawn By CC
				Sheet No. 2/3



Pcs / Reel	Reels / Carton	Total Quantity
270	10	2,700 pcs

Part Number		Product Description	
USB4151		USB3.1 Type C Plug, Vertical, SMT	
Drawing Date		14th January 2020	
By	CC	Tolerances (Except as Noted)	Units:
Detail	Drawing Release	Length	Metric (mm)
Revision	A2	X.X ± 0.30	
Date	07/09/20	X.XX ± 0.25	
		X.XXX ± 0.10	

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. 3/3
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