

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

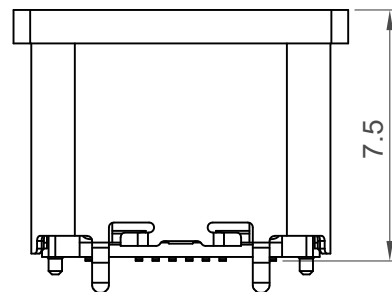
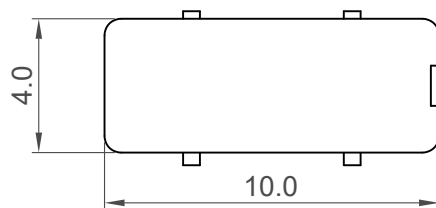
Request Samples and Quotation

Contact Plating
 03 = 3u" Gold

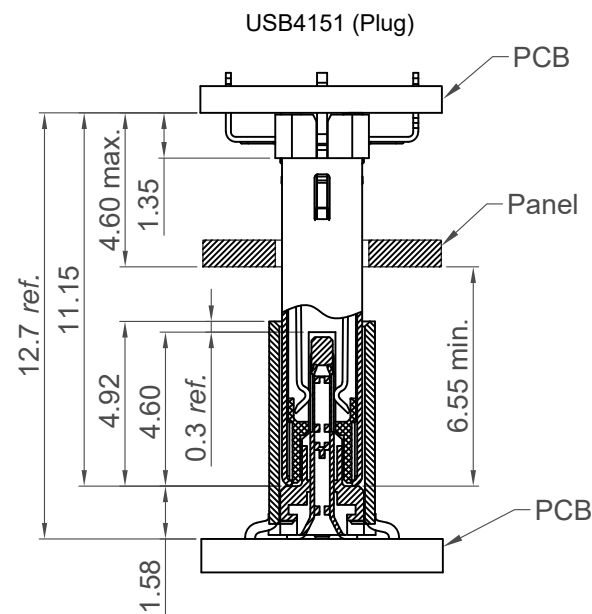
Packing Options
 C = Tape & Reel with Cap
 (600 per reel)

Part Number		Product Description	
USB4120		USB 2.0 Type C Receptacle, 16contacts, Vertical,	
Drawing Date		SMT, H=6.5mm	
28th September 2020			
By	CC	Tolerances (Except as Noted)	Units:
Detail	Drawing Release	Length	Metric (mm)
Revision	A2	Angle	
Date	01/11/21	X.X ± 0.30	
		X.XX ± 0.25	
		X.XXX ± 0.10	
		3rd Angle Projection	
		RoHS COMPLIANT 2011/65/EU	
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		Not to Scale	
		Drawn By CC	
		Sheet No. 1/3	

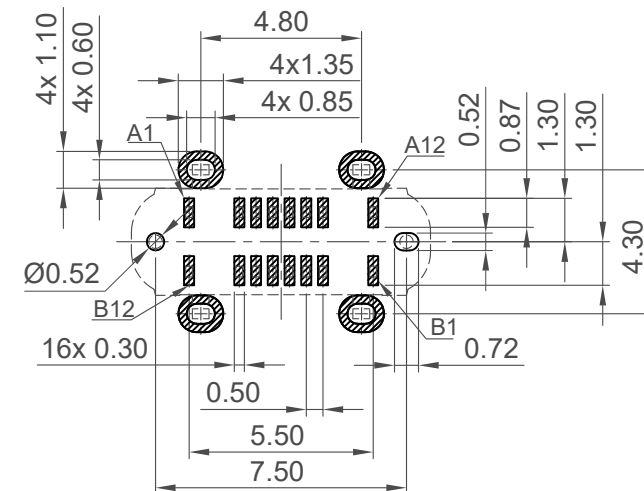
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Cap Information



USB4120 (Receptacle)
Plug and Receptacle Mating View



Recommended PCB Layout

Thickness 1.00±0.10mm

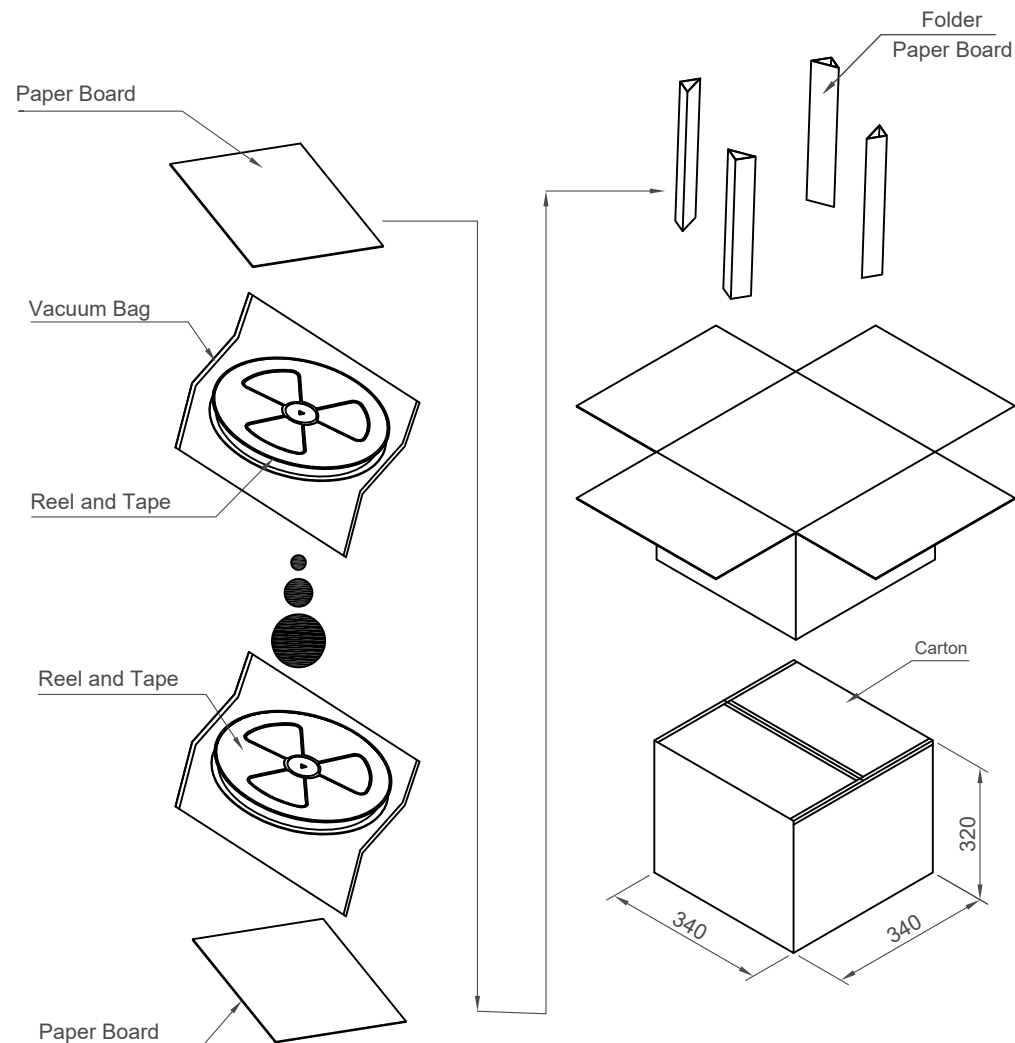
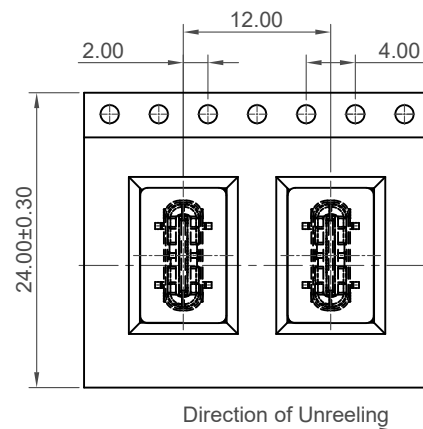
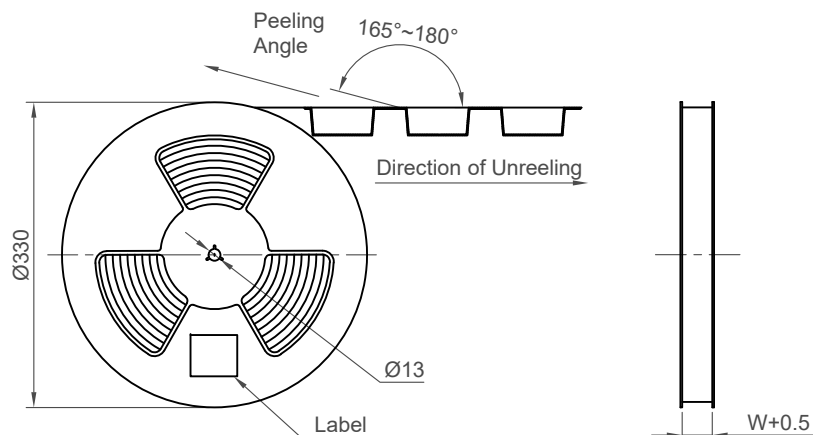
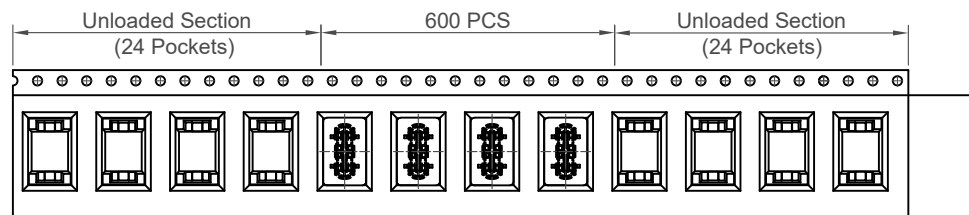
Tolerance: ±0.05mm

■ Solder Area □ Component Outline

Pin	Signal	Mating Sequence	Pin	Signal	Mating Sequence
A1	GND	First	B12	GND	First
A4	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 USB4120		Product Description USB 2.0 Type C Receptacle, 16contacts, Vertical, SMT, H=6.5mm	
Drawing Date 28th September 2020			
By CC	CC	Tolerances (Except as Noted)	Units: Metric (mm)
Detail Drawing Release	CC	Length X.X ± 0.30	Angle X.XX ± 0.25
Revision A2	A2	X.XXX ± 0.10	-
Date 01/11/21	01/11/21	X.XXX ± 0.10	-
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Pcs / Reel	Reels / Carton	Total Quantity
600	10	6,000 pcs

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Drawing Date 28th September 2020			
By CC	Drawing Release	Tolerances (Except as Noted)	Units: Metric (mm)
Detail	Release	Length X.X ± 0.30	
Revision A2		Angle X.XX ± 0.25	
Date 01/11/21		X.XXX ± 0.10	

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