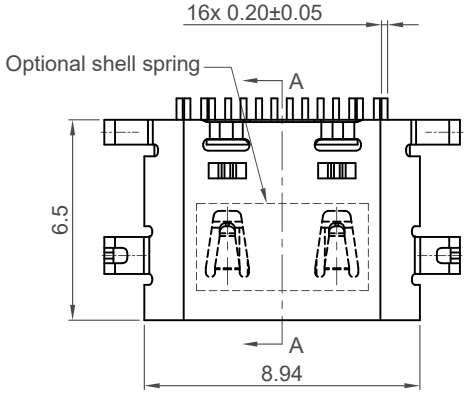
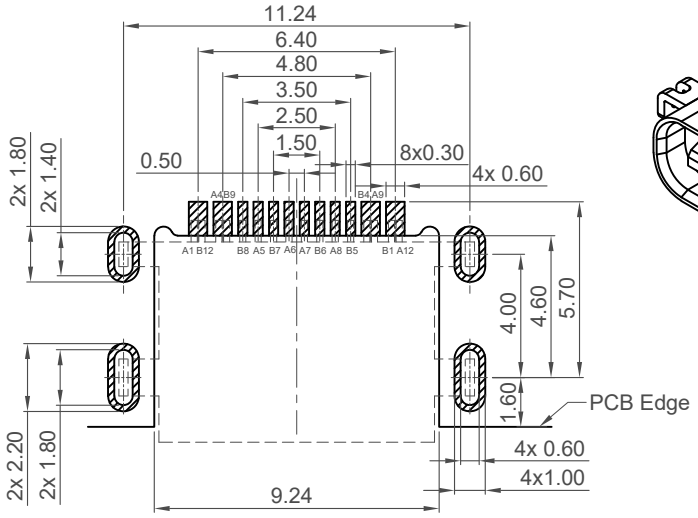
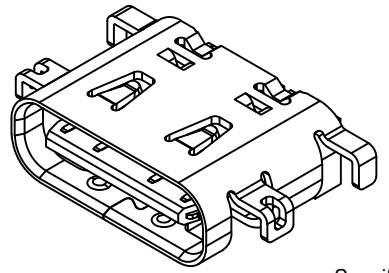
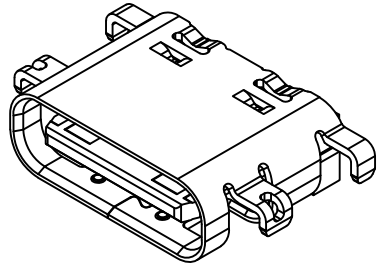
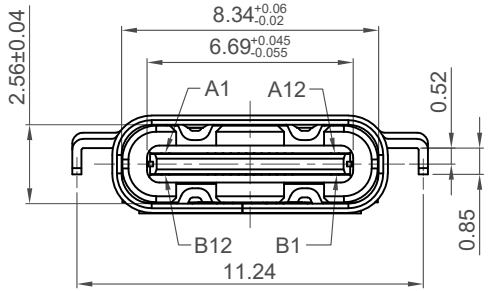


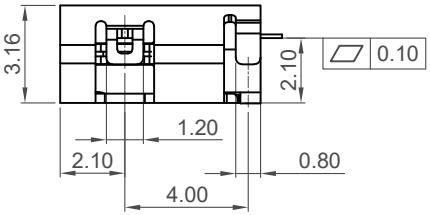


Recommended PCB Layout
Thickness=0.80mm
As viewed from component side Tolerance:±0.05mm
Solder Area Component Outline



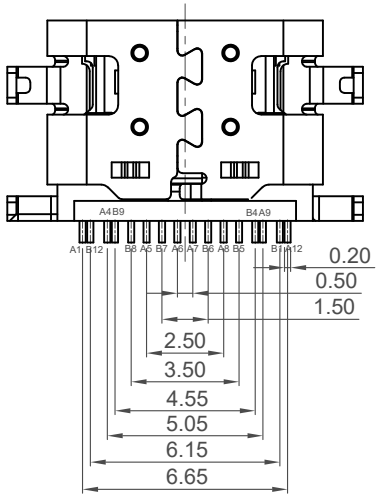


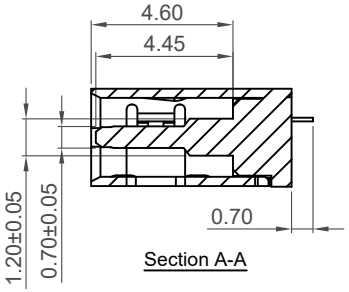




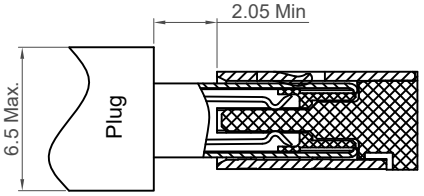
Pin	Signal	Mating Sequence
A1	GND	First
A4	VBUS	First
A5	CC1	Second
A6	Dp1	Second
A7	Dn1	Second
A8	SBU1	Second
A9	VBUS	First
A12	GND	First
SHELL		GND

Pin	Signal	Mating Sequence
B12	GND	First
B9	VBUS	First
B8	SBU2	Second
B7	Dn2	Second
B6	Dp2	Second
B5	CC2	Second
B4	VBUS	First
B1	GND	First
SHELL		GND





Section A-A



Plug and Receptacle Mating View

Specifications

Material
Insulator: LCP, E130i, UL 94V-0, Black
Contact: Copper Alloy, C18400-H, T=0.12mm
Shell: Stainless steel , SUS304-1/2H, T=0.30mm
Mid Plate:Stainless Steel, SUS301-3/4H, T=0.15mm

Plating
Terminal:
Contact Area: See Ordering Grid
Solder Tails: Gold Flash
Underplating: 50µ" Min. Nickel All Over
Shell: 30µ" 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: -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

USB4520 – 03 – X – A

Request Samples and Quotation

Contact Plating
03 = 3µ" Gold

Shell Spring
0 = Without
1 = With

Packing Options
A = Tape & Reel
(1400 pcs/reel)

Part Number	Product Description
USB4520	USB Type C Receptacle for USB 2.0, SMT Type, Mid Mount, 2.1mm Offset
Drawing Date	
1st July 2021	

By	CC
Detail	Drawing Release
Revision	A
Date	01/07/21

Tolerances (Except as Noted): Length X.X ± 0.30, X.XX ± 0.20, X.XXX ± 0.10; Angle -

Units: Metric (mm)

3rd Angle Projection

RoHS COMPLIANT 2011/65/EU Decs-BDE

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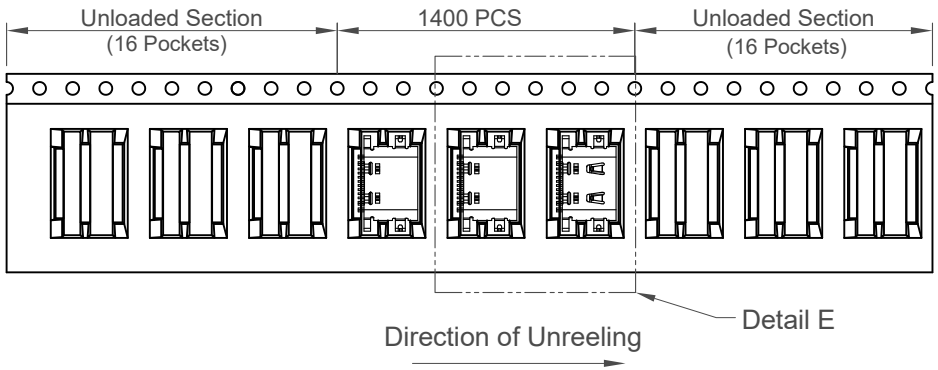
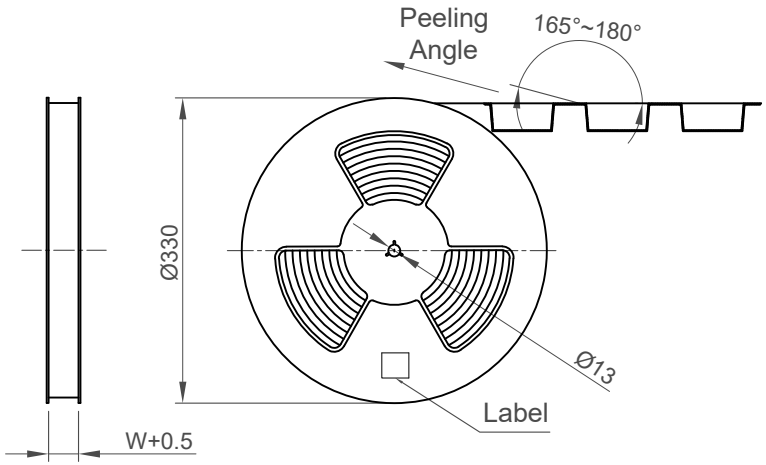
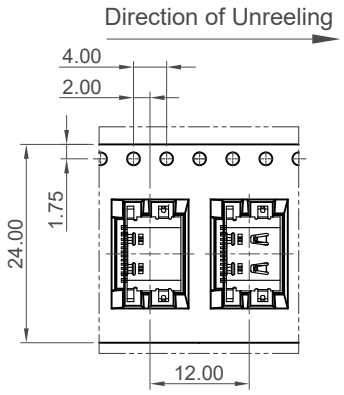
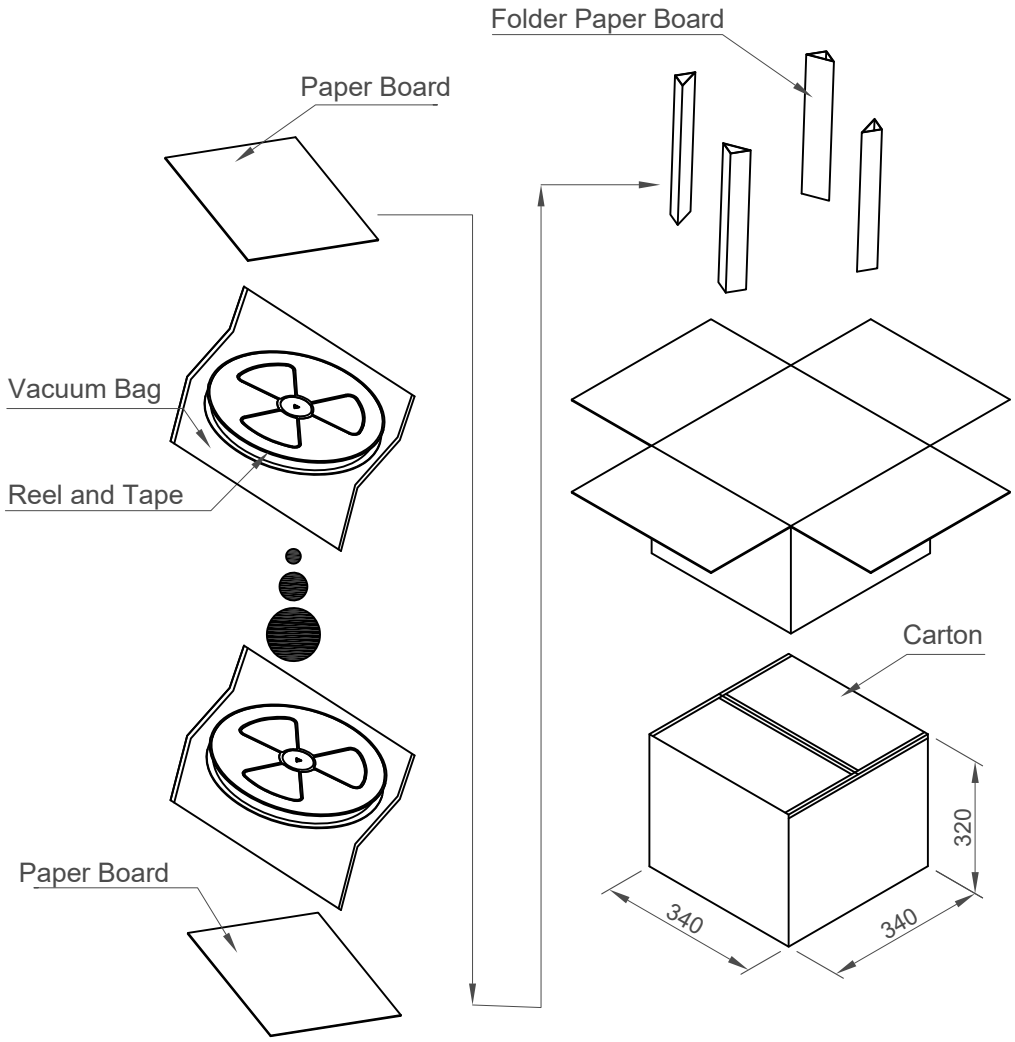
Not to Scale	Drawn By CC	Sheet No. 1/2







Detail: E



Pcs / Reel	Reels / Carton	Total Quantity
1400	10	14000 pcs

Part Number		Product Description					
USB4520		USB Type C Receptacle for USB 2.0, SMT Type, Mid Mount, 2.1mm Offset					
Drawing Date							
1st July 2021							
By	CC	Tolerances (Except as Noted) Length	Angle	Units: Metric (mm)	RoHS COMPLIANT 2011/65/EU Deca-BDE	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	www.gct.co
Detail	Drawing Release	-	-	3rd Angle Projection			Not to Scale / Drawn By CC / Sheet No. 2/2
Revision	A						
Date	01/07/21						

Mouser Electronics

Authorized Distributor

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Global Connector Technology (GCT):

USB4520-03-0-A USB4520-03-1-A