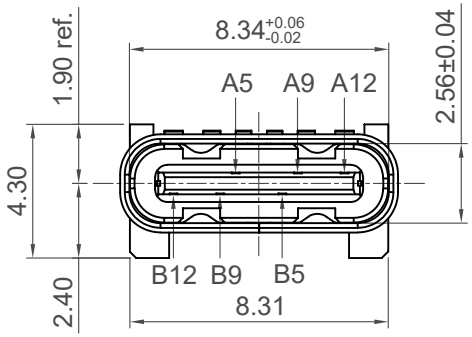
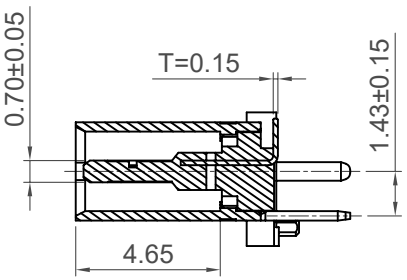
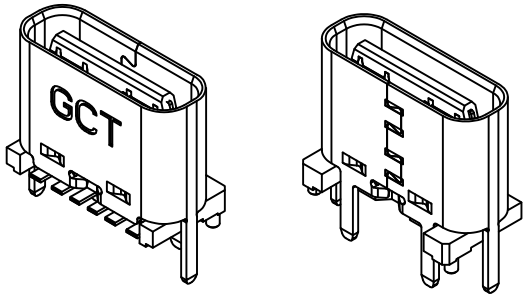
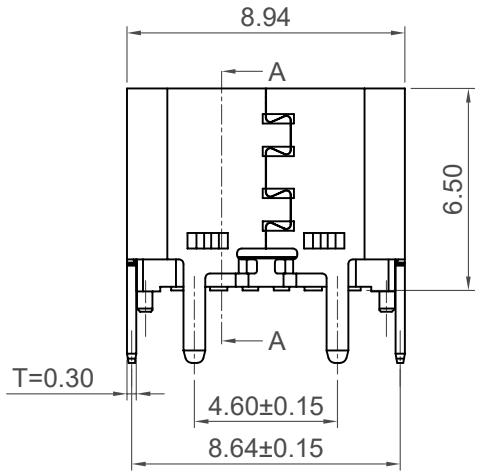
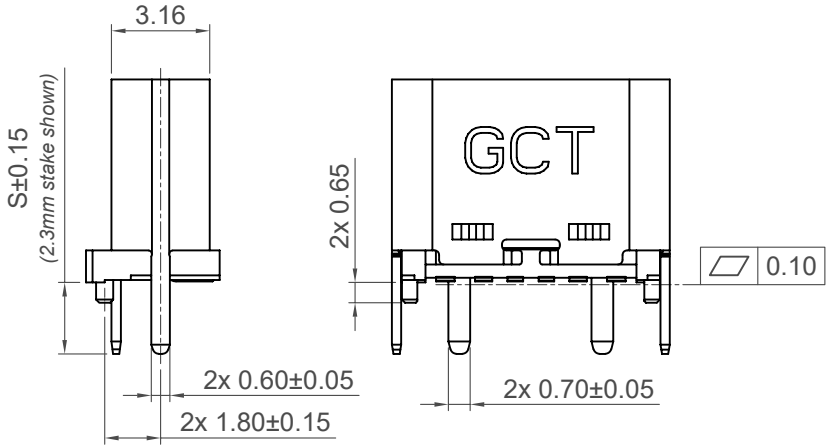


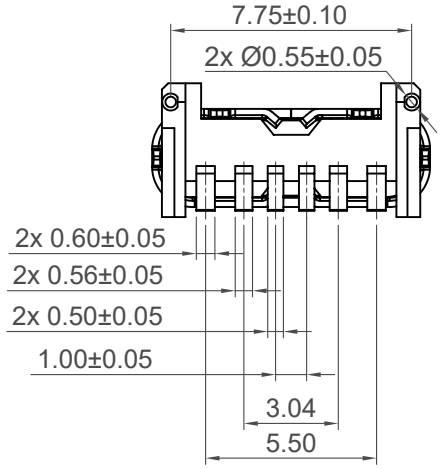


Section:A-A









Ordering Grid

USB4140 — GF — XXXX — C — Request Samples and Quotation

Contact Plating
GF = Gold Flash

Shell Stake Length "S"
0070 = 0.70mm
0170 = 1.70mm
0230 = 2.30mm

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

Specifications

Material
Insulator: PA9T, UL 94V-0, Black
Contact: Copper Alloy
Shell: Stainless Steel
Middle Plate: Stainless Steel

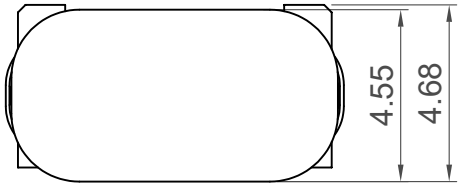
Plating
Contact
Contact Area: Gold Flash Over 50µ" min. Nickel
Solder Tails: Gold Flash Over 50µ" min. Nickel
Shell: 30µ" min. Nickel
Middle Plate: Clear

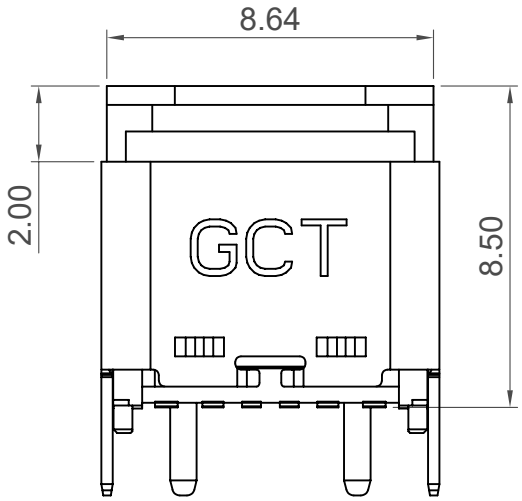
Electrical
Current Rating: 3.00A collectively for VBUS pins
4.25A collectively for GND pins
1.25A for A5/B5 pin

Voltage Rating: 48V DC
Contact Resistance: 40mΩ max initial.
50mΩ max after test
Dielectric Withstanding Voltage: 100V AC
Insulation Resistance 100MΩ min

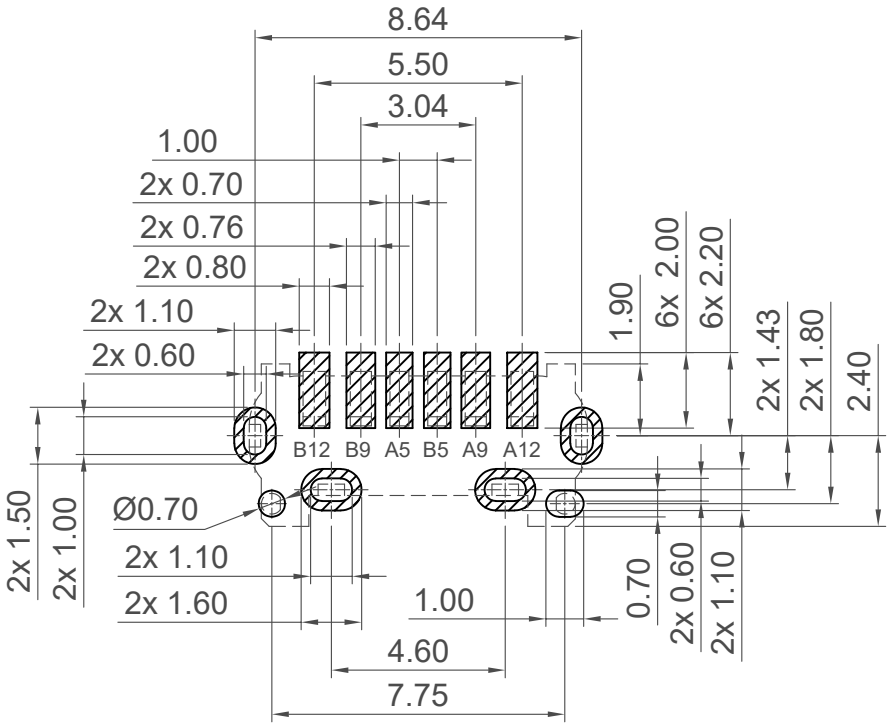
Mechanical & Environmental
Operating Temperature: -25°C to +85°C
Mating Force: 5 to 20 N.
Unmated Force: 6 to 20 N after test
Durability: 20K cycles

Part Number: USB4140		Product Description: USB Type C Receptacle, Vertical, SMT, For Power charging only, H=6.50mm, 6 Pin					
Drawing Date: 25th February 2022							
By	KY	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	GCT www.gct.co
Detail	Drawing Release	X.X ± 0.30	-	3rd Angle Projection			Not to Scale / Drawn By CC / Sheet No. 1/4
Revision	A3	X.XX ± 0.20					
Date	29/08/24	X.XXX ± 0.10					





Cap Information



Recommended PCB Layout

Tolerance: ±0.05mm

Solder Area Component Outline

Pin	Signal	Mating Sequence
A5	CC1	Second
A9	V_{BUS}	First
A12	GND	First
B5	CC2	Second
B9	V_{BUS}	First
B12	GND	First
SHELL		GND

Part Number	USB4140
Drawing Date	25th February 2022
By	KY
Detail	Drawing Release
Revision	A3
Date	29/08/24

Product Description: USB Type C Receptacle, Vertical, SMT, For Power charging only, H=6.50mm, 6 Pin

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 Deca-BDE

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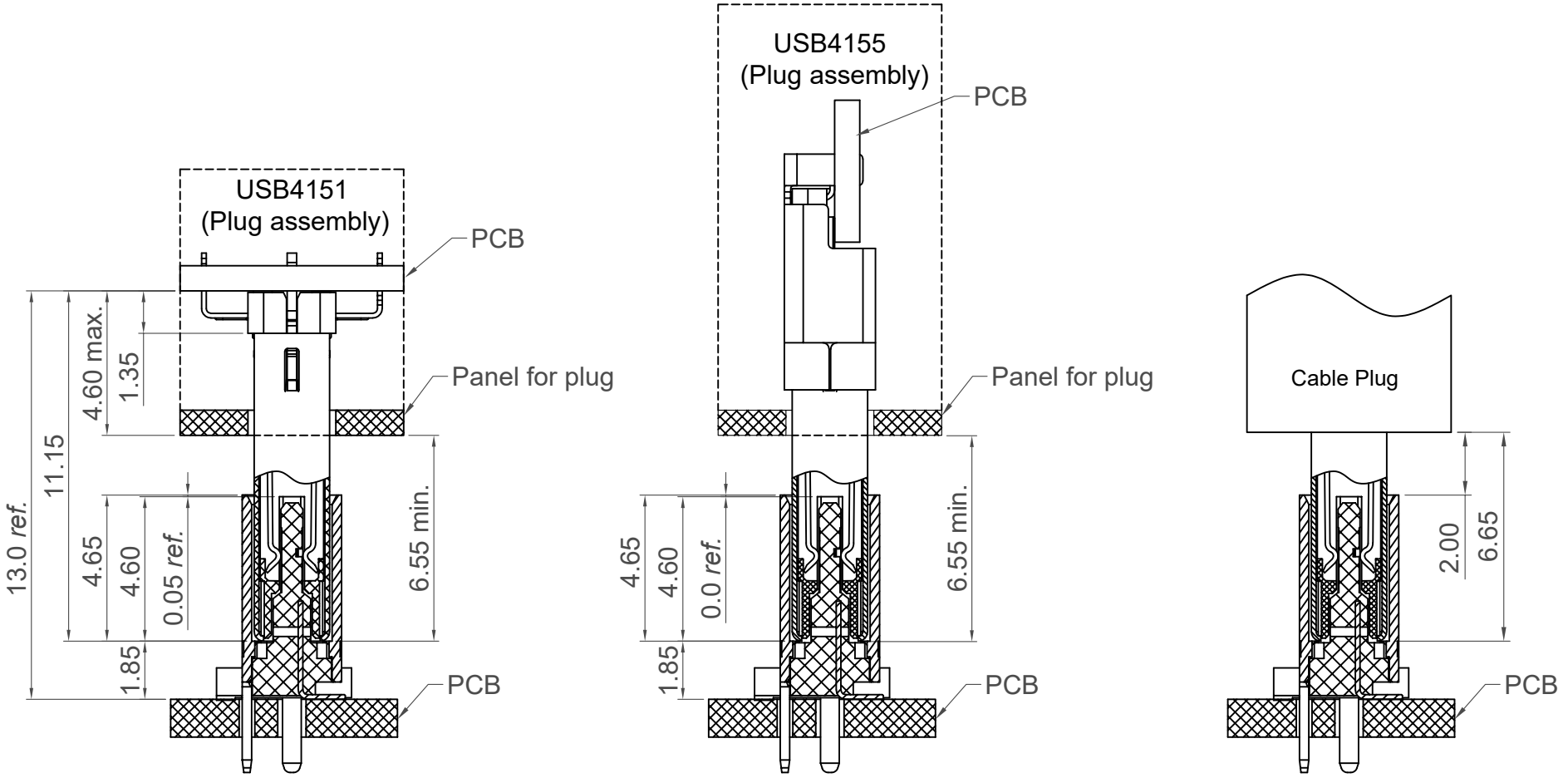
Not to Scale	Drawn By CC	Sheet No. 2/4



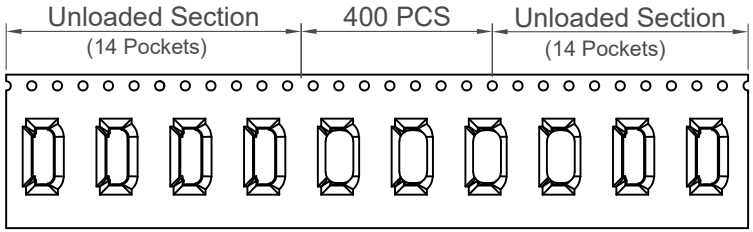
USB4140
(Receptacle assembly)

USB4140
(Receptacle assembly)

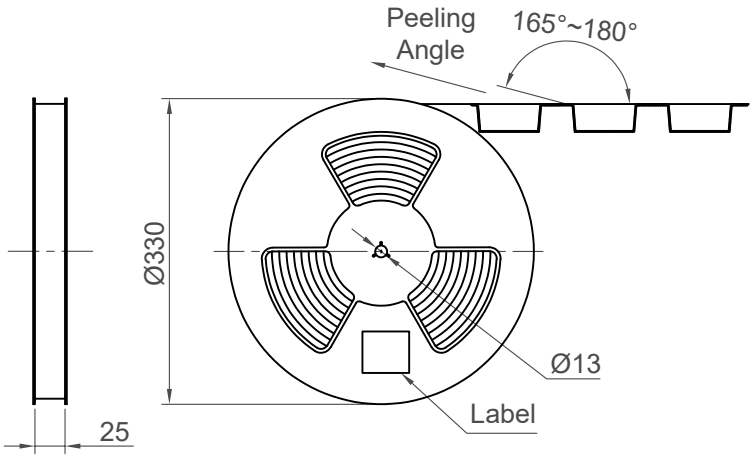
USB4140
(Receptacle assembly)

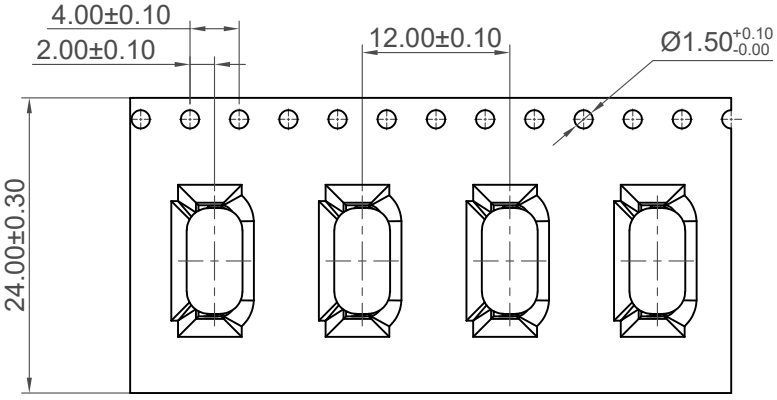
Plug and Receptacle Mating View

Part Number: USB4140		Product Description: USB Type C Receptacle, Vertical, SMT, For Power charging only, H=6.50mm, 6 Pin					
Drawing Date: 25th February 2022							
By	KY	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	GCT www.gct.co
Detail	Drawing Release	X.X ± 0.30	-	3rd Angle Projection			Not to Scale / Drawn By CC / Sheet No. 3/4
Revision	A3	X.XX ± 0.20					
Date	29/08/24	X.XXX ± 0.10					

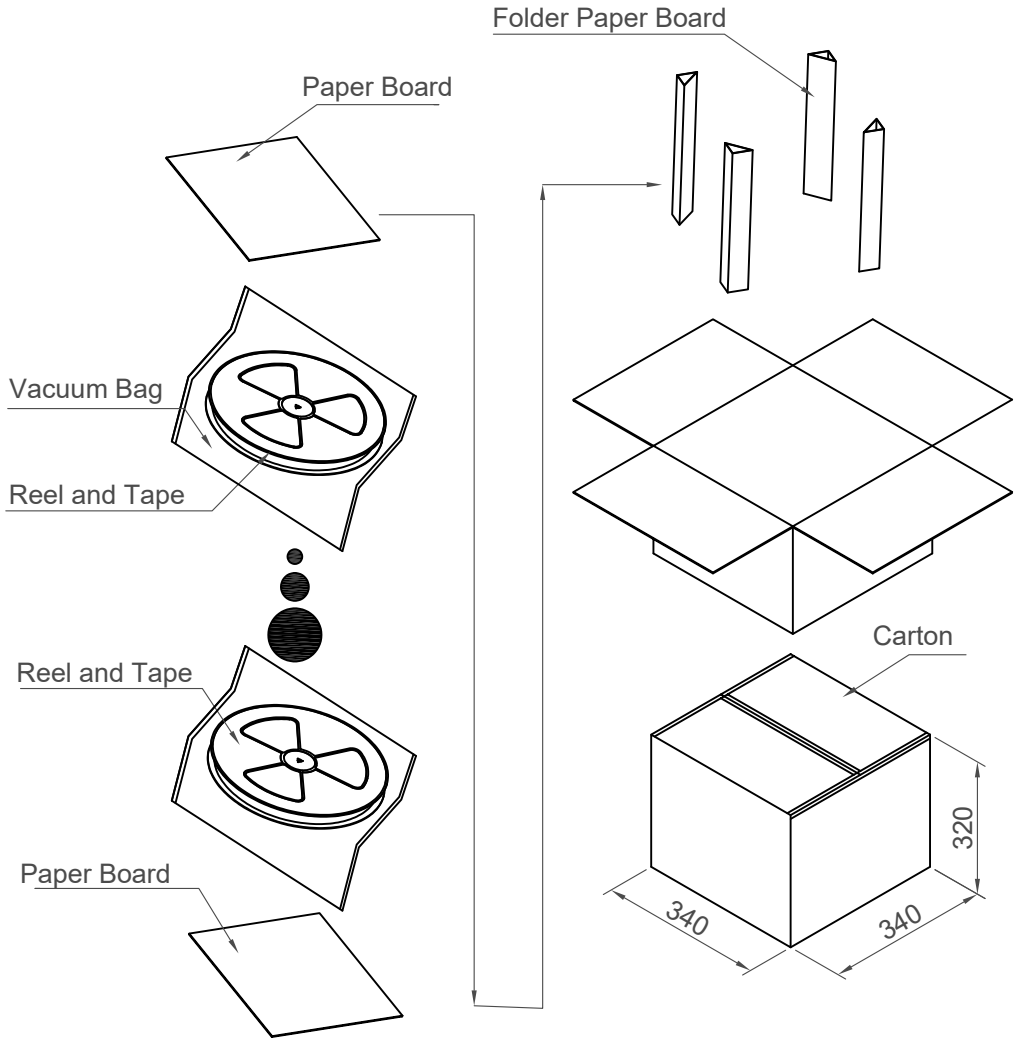


Direction of Unreeling





Direction of Unreeling



Pcs / Reel	Reels / Carton	Total Quantity
400	10	4,000 pcs

Part Number: USB4140		Product Description: USB Type C Receptacle, Vertical, SMT, For Power charging only, H=6.50mm, 6 Pin					
Drawing Date: 25th February 2022							
By	KY	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	GCT www.gct.co
Detail	Drawing Release	-	-	3rd Angle Projection			Not to Scale / Drawn By CC / Sheet No. 4/4
Revision	A3						
Date	29/08/24						

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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USB4140-GF-0070-C USB4140-GF-0170-C USB4140-GF-0230-C