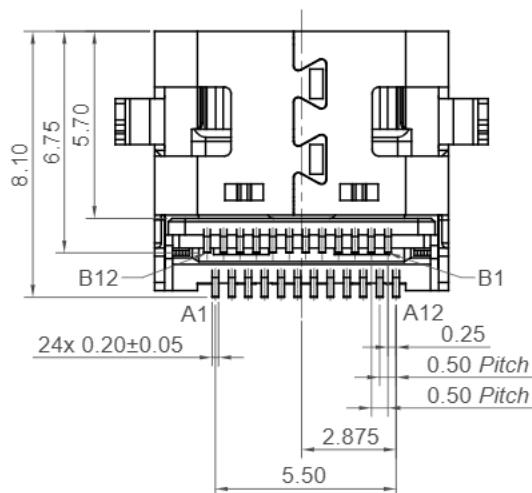
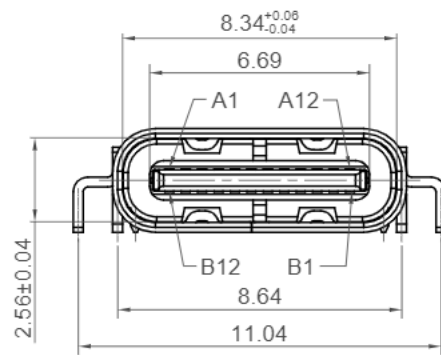
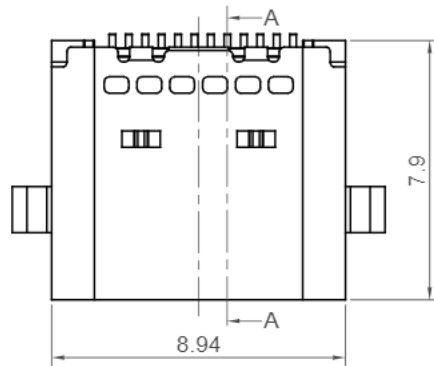
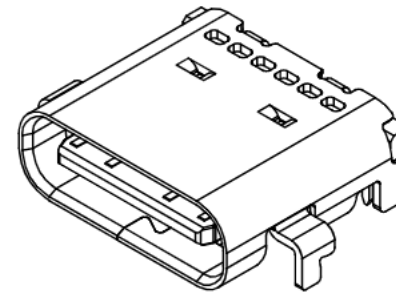


Plug and Receptacle Mating View

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: Copper Alloy
Mid Plate: Stainless Steel
EMI Plate: Stainless Steel
Shell: Stainless Steel

Plating

Terminal

Contact Area: See Ordering Grid
Solder Tails: Gold Flash
Underplating: 50µ" Min. Nickel Over All
Shell: 30µ" min. Nickel
Mid Plate: 50µ" min Sn over 30µ" min. Nickel
EMI Plate: Clear

Electrical

Current Rating: 5.00A collectively for Vbus pins
6.25A collectively for GND pins
1.25A for A5/B5 pin
0.25A per pin for all other pins

Voltage Rating: 48V DC

Power Rating: 240W

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

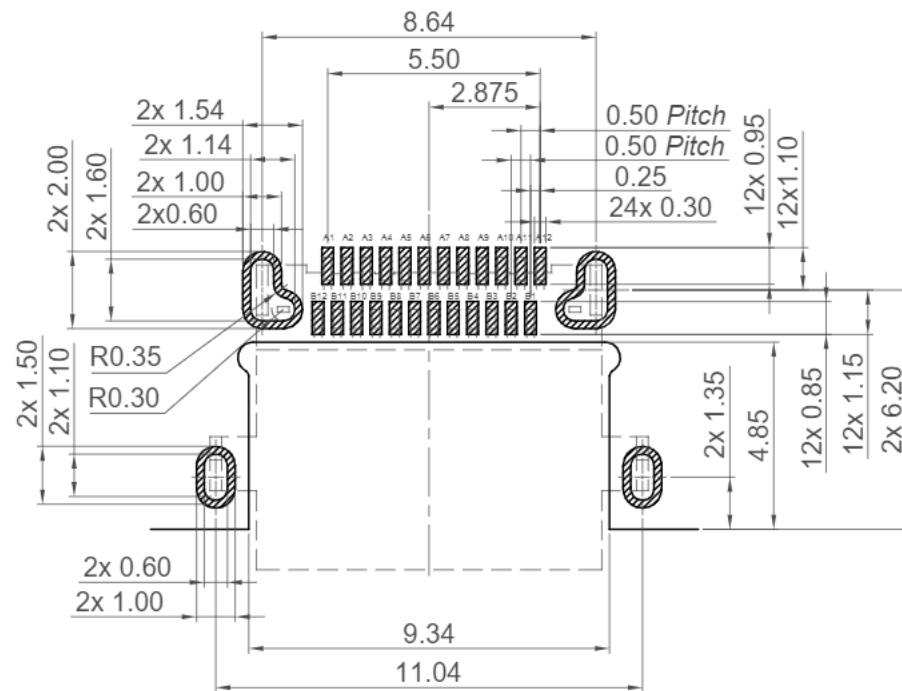
Durability: 10,000 cycles

Ordering Grid

USB4525	03	A	Request Samples and Quotation
Contact Plating			Packing Options
03 = 3µ" Gold			A = Tape & Reel (900pcs/Reel)

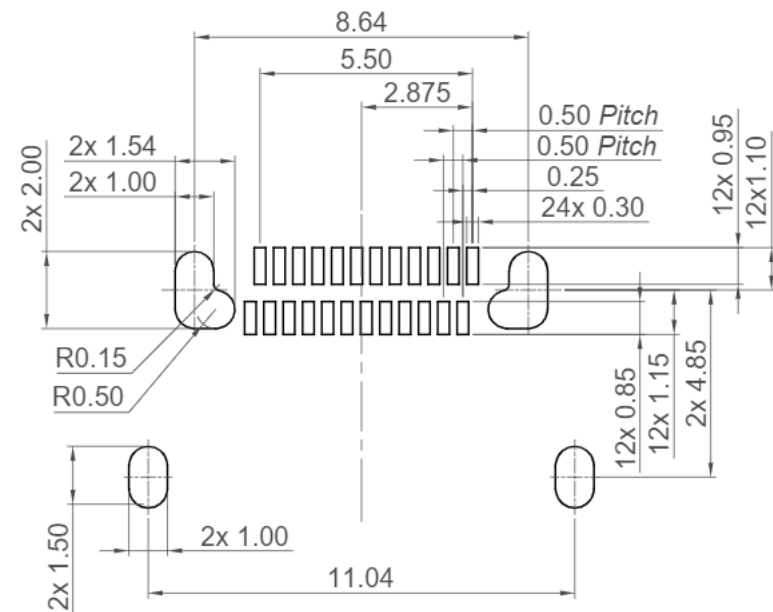
Part Number USB4525			Product Description USB3.2 Gen 2 Type C Receptacle, Dual Row SMT, Horizontal, Mid Mount, 0.8mm Offset, 24 Pin				www.gct.co	
Drawing Date 8th July 2022								
By	CC	Tolerances (Except as Noted) Length X.X ± 0.30 X.XX ± 0.25 X.XXX ± 0.10	Units: Metric (mm)					This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE
Detail	Drawing Release							
Revision	A1							
Date	30/05/23					Not to Scale	Drawn By CC	Sheet No. 1/3

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Recommended PCB Layout
As viewed from component side Tolerance: $\pm 0.05\text{mm}$

■ Solder Area □ Component Outline



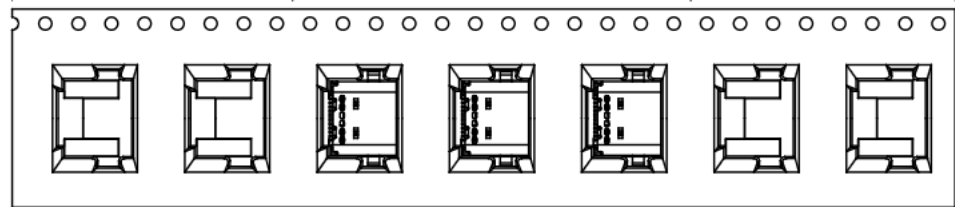
Recommended Solder mask
Thickness = 0.12mm
Tolerance: $\pm 0.05\text{mm}$

Part Number USB4525		Product Description USB3.2 Gen 2 Type C Receptacle, Dual Row SMT, Horizontal, Mid Mount, 0.8mm Offset, 24 Pin	
Drawing Date 8th July 2022			
By Detail	CC Drawing Release	Tolerances (Except as Noted) Length X.X ± 0.30 X.XX ± 0.25 X.XXX ± 0.10	Units: Metric (mm)
Revision Date	A1 30/05/23	Angle -	2nd Angle Projection
		RoHS COMPLIANT 2011/05/IEU 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	
		Not to Scale	Drawn By CC
			Sheet No. 2/3

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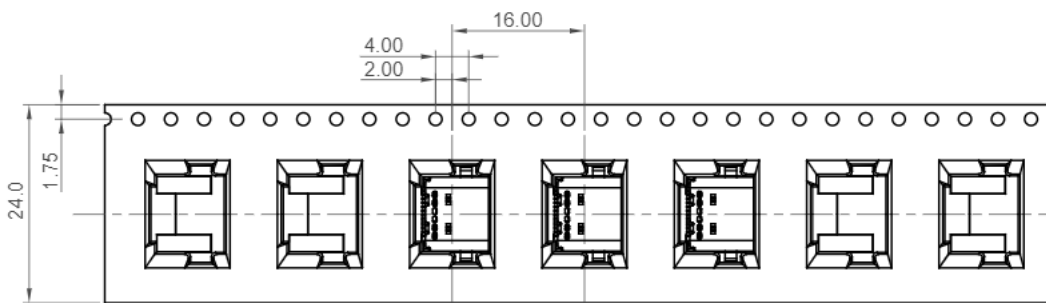
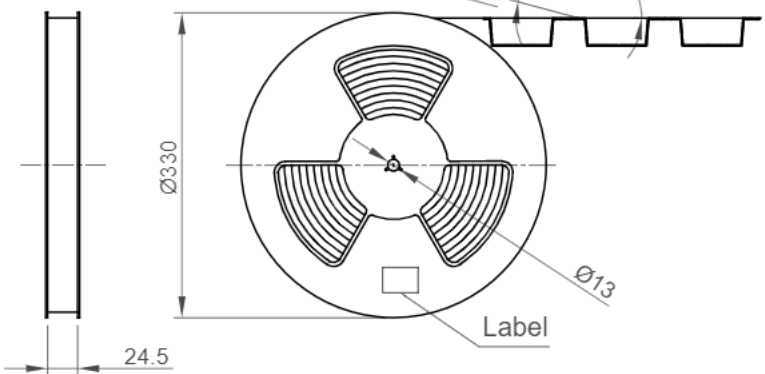
H
G
F
E
D
C
B
A

Unloaded Section (27 Pockets) 900 PCS Unloaded Section (27 Pockets)

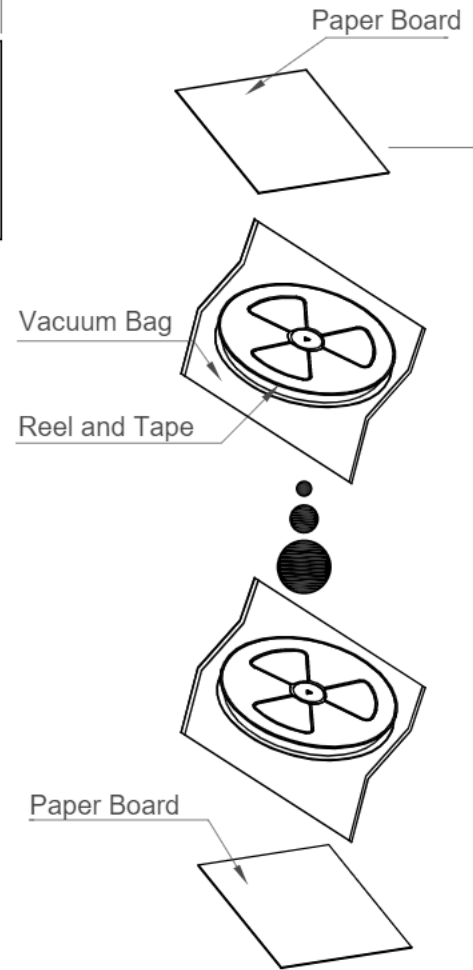


Direction of Unreeling

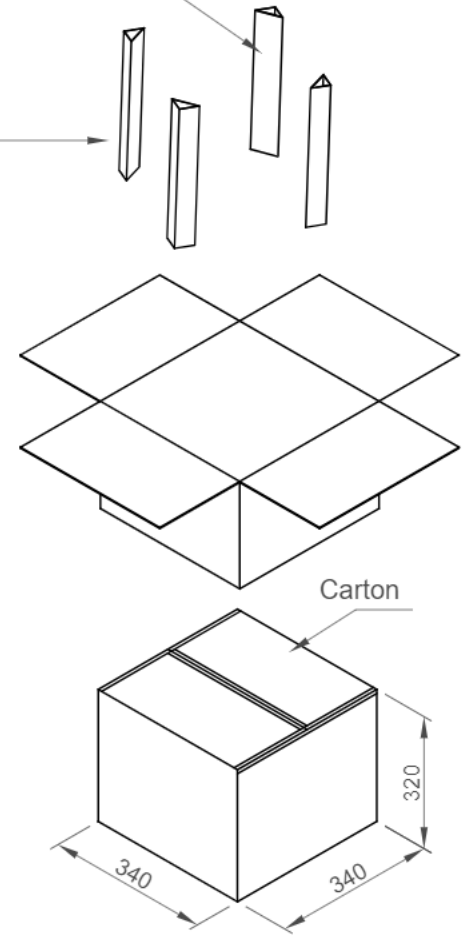
Peeling Angle 165°~180°



Direction of Unreeling



Folder Paper Board



Pcs / Reel	Reels / Carton	Total Quantity
900	10	9000 pcs

Part Number USB4525		Product Description USB3.2 Gen 2 Type C Receptacle, Dual Row SMT, Horizontal, Mid Mount, 0.8mm Offset, 24 Pin	
Drawing Date 8th July 2022			
By CC	Drawing Release	Tolerances (Except as Noted) Length: X.X ± 0.30 Angle: X.XX ± 0.25 X.XXX ± 0.10	Units: Metric (mm)
Detail	A1		
Revision	30/05/23		
Date			



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