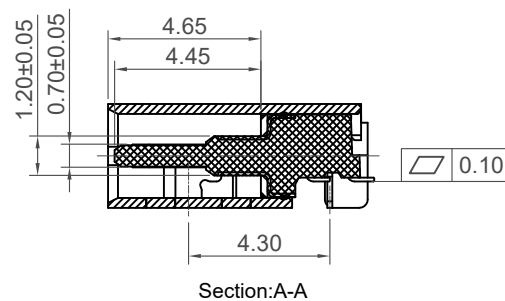
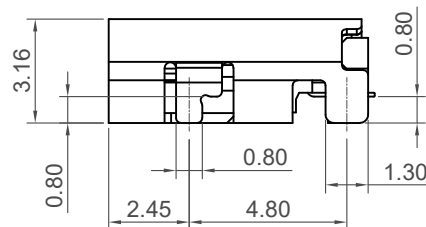
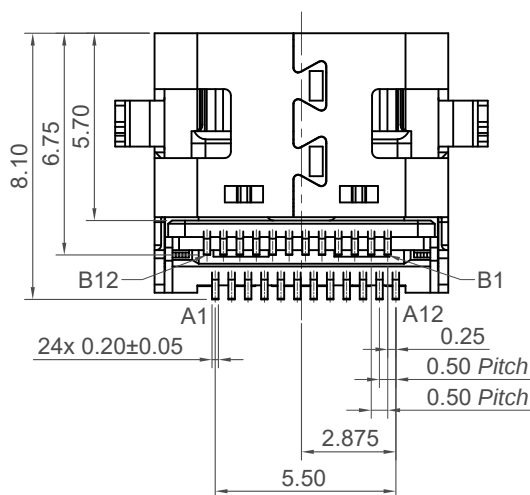
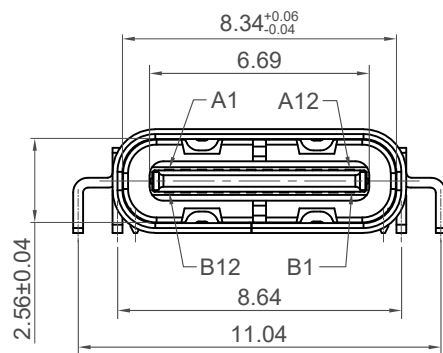
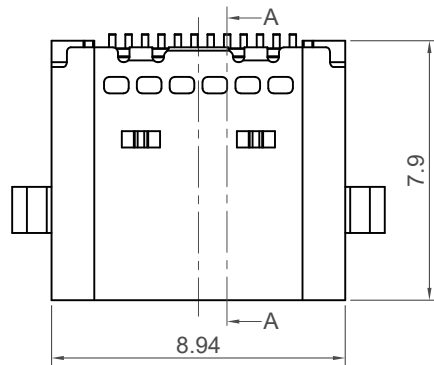
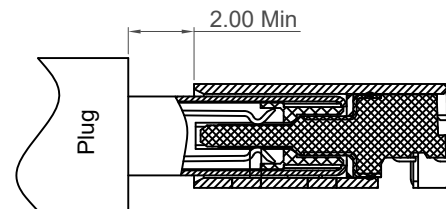
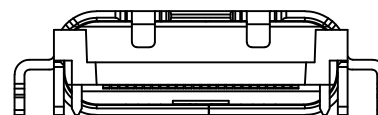
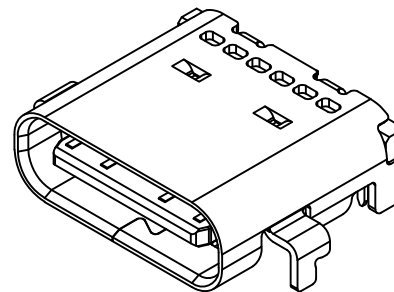




Pin	Signal	Mating Sequence	Pin	Signal	Mating Sequence
A1	GND	First	B12	GND	First
A2	SSTXp1	Second	B11	SSRXp1	Second
A3	SSTXn1	Second	B10	SSRXn1	Second
A4	Vbus	First	B9	Vbus	First
A5	CC1	Second	B8	SBU2	Second
A6	Dp1	Second	B7	Dn2	Second
A7	Dn1	Second	B6	Dp2	Second
A8	SBU1	Second	B5	CC2	Second
A9	Vbus	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	



Plug and Receptacle Mating View

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: 20V DC
Contact Resistance: 40mΩ max initial.
50mΩ max after test
Dielectric Withstanding Voltage: 100V AC
Insulation Resistance 100MΩ min

Mechanical & Environmental

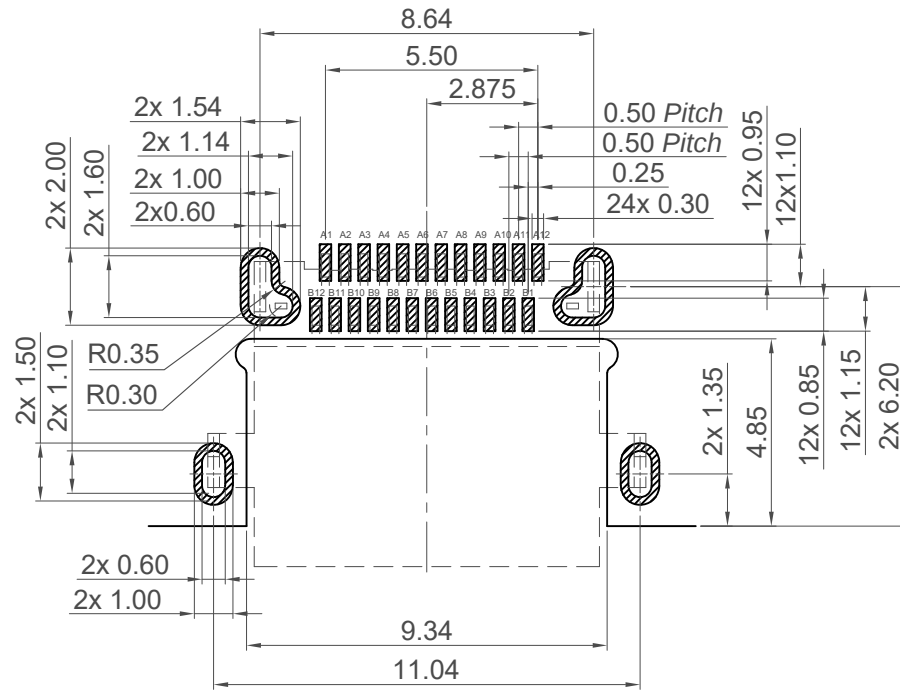
Operating Temperature: -25°C to +85°C
Mating Force: 5 to 20 N.
Unmated Force: 6 to 20 N after test
Durability: 10,000 cycles

Ordering Grid

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

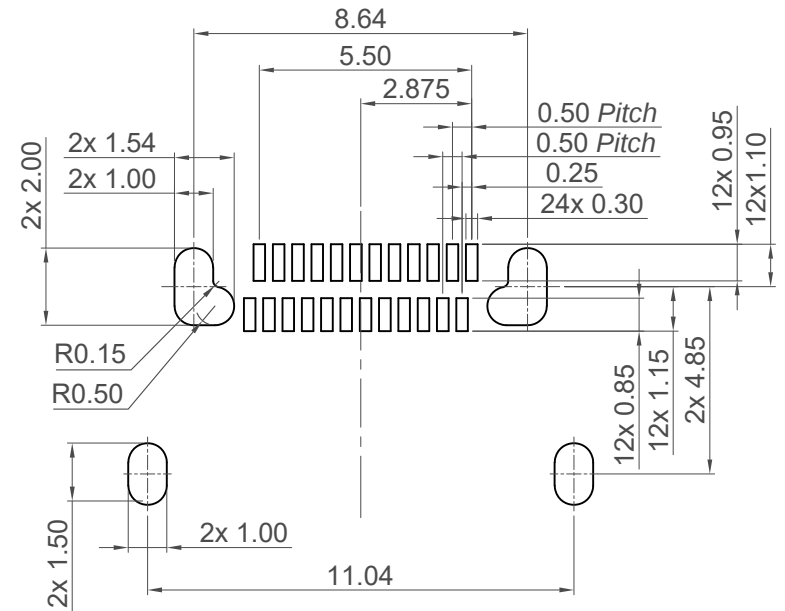
Part Number			Product Description		
USB4525			USB3.2 Gen 2 Type C Receptacle, Dual Row SMT,		
Drawing Date			Horizontal, Mid Mount, 0.8mm Offset, 24 Pin		
8th July 2022					
By	CC	Tolerances (Except as Noted)		Units:	This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE
Detail	Drawing Release	Length	Angle	Metric (mm)	
Revision	A	X.X ± 0.30		 3rd Angle Projection	
Date	08/07/22	X.XX ± 0.25			
		X.XXX ± 0.10			
					
					

 www.gct.co		
Not to Scale	Drawn By CC	Sheet No. 1/3



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

Solder Area
 Component Outline

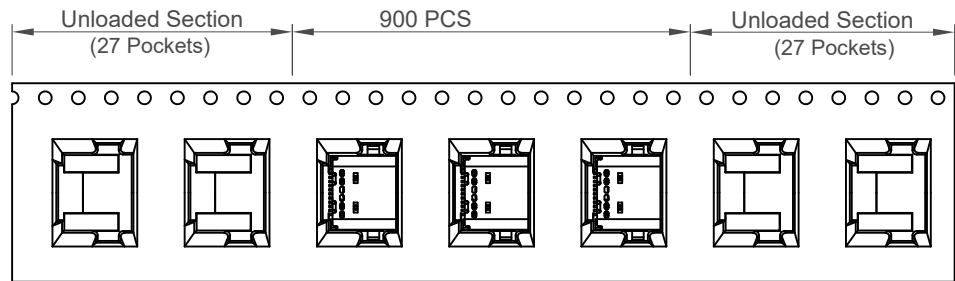


Recommended Solder mask
Thickness = 0.12mm
Tolerance: $\pm 0.05\text{mm}$

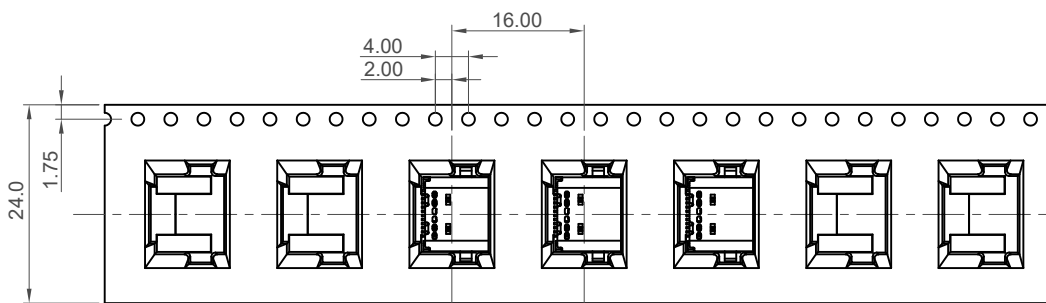
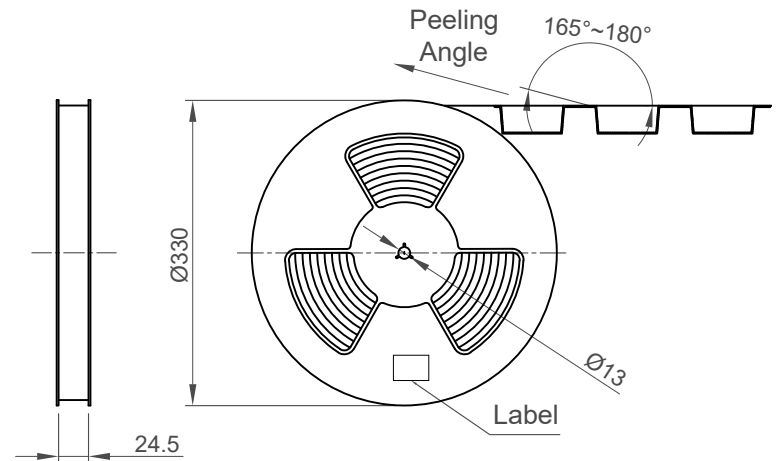
Part Number		Product Description				 www.gct.co
USB4525		USB3.2 Gen 2 Type C Receptacle, Dual Row SMT, Horizontal, Mid Mount, 0.8mm Offset, 24 Pin				
Drawing Date						
8th July 2022						
By	CC	Tolerances (Except as Noted)		Units:	 Deca-BDE  3rd Angle Projection  This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE	
Detail	Drawing Release	Length	Angle	Metric (mm)		
Revision	A	X.X ± 0.30	-			
Date	08/07/22	X.XX ± 0.25				
		X.XXX ± 0.10				
Not to Scale		Drawn By		CC	Sheet No. 2/3	

GCT
www.gct.co

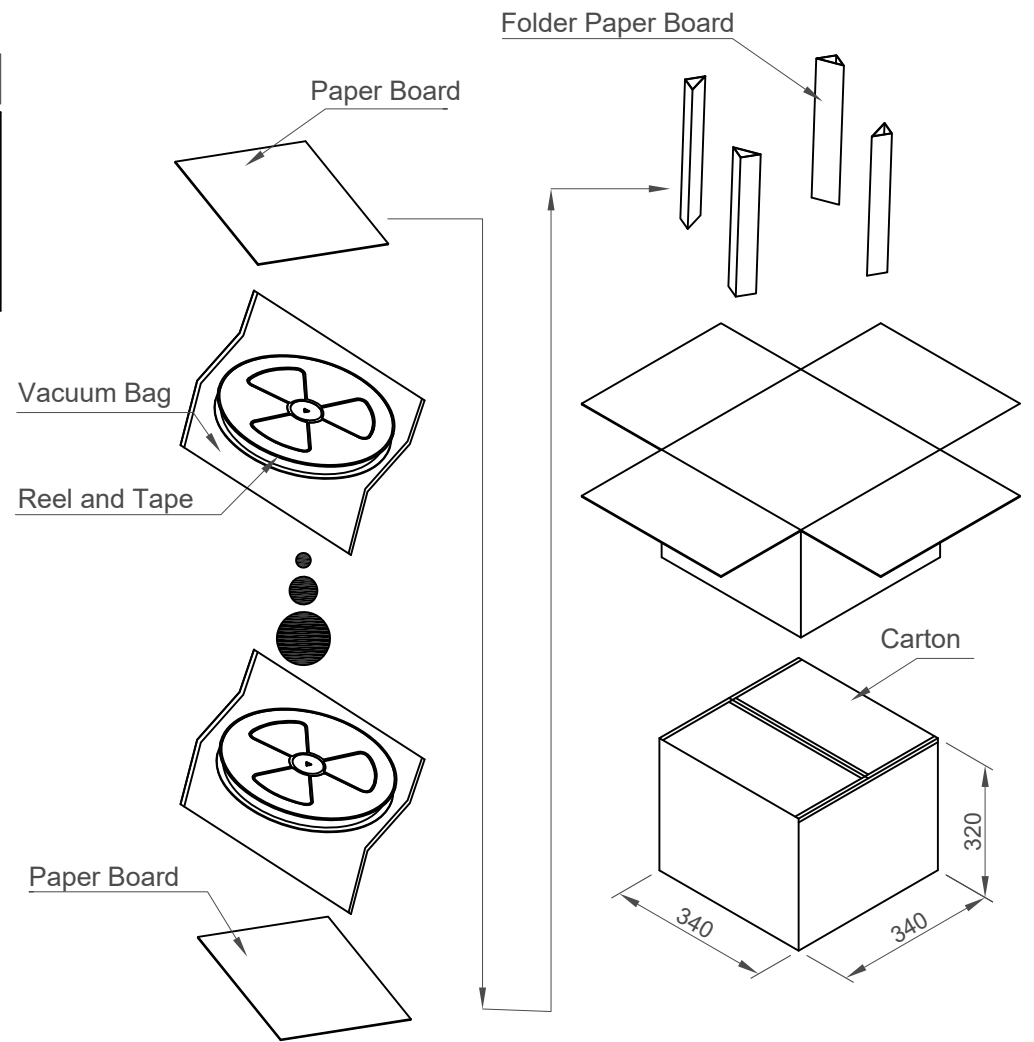
H
G
F
E
D
C
B
A



Direction of Unreeling



Direction of Unreeling



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 X.XX ± 0.25 X.XXX ± 0.10	Units: Metric (mm)
Detail	Revision A		
Revision Date	08/07/22		
		3rd Angle Projection	
		RoHS COMPLIANT 2011/65/EU Deca-SIDE	
		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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