

Section: A-A

Specifications

Material

Insulator: LCP, UL 94V-0, Black
Contact: Copper Alloy (C1814)
Mid Plate: Stainless Steel (SUS301)
EMI Plate: Stainless Steel (SUS301)
Shell: Stainless Steel (SUS304)

Plating

Terminal:
Contact Area: 3μ" Gold over 50μ" min. Nickel
Soldering Tails: Gold Flash over 50μ" min. Nickel
Shell: Nickel
Mid Plate: Cleaning
EMI 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

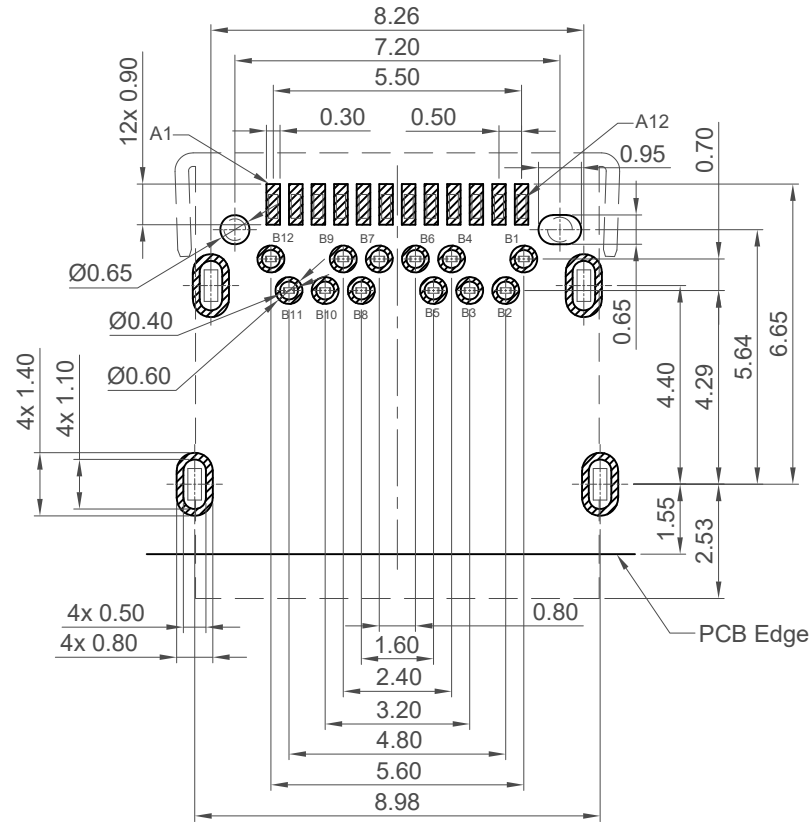
Durability: 10,000 cycles

Ordering Grid

USB4056	03	A	XXXX	Request Samples and Quotation
Contact Plating 03 = 3μ" Gold		Shell Stake Length "S" Blank = 1.15mm 0140 = 1.40mm		
Packing Options A = Tape & Reel (1000 per reel)				

Part Number		Product Description		
USB4056		USB3.2 Gen 2 Type C Receptacle, Horizontal, Hybrid type, PCB Top Mount.		
Drawing Date				
22nd April 2021				
By	CC	Tolerances (Except as Noted)	Units:	<div>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</div>
Detail	Drawing Release	Length	Metric (mm)	
Revision	A2	X.X ± 0.30 X.XX ± 0.25 X.XXX ± 0.10	-	
Date	05/08/21			

GCT
www.gct.co



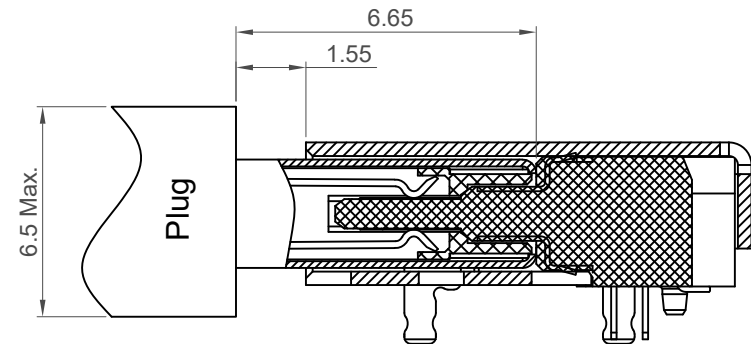
Recommended PCB Layout





Thickness 1.00 to 1.20mm

Tolerance: $\pm 0.05\text{mm}$

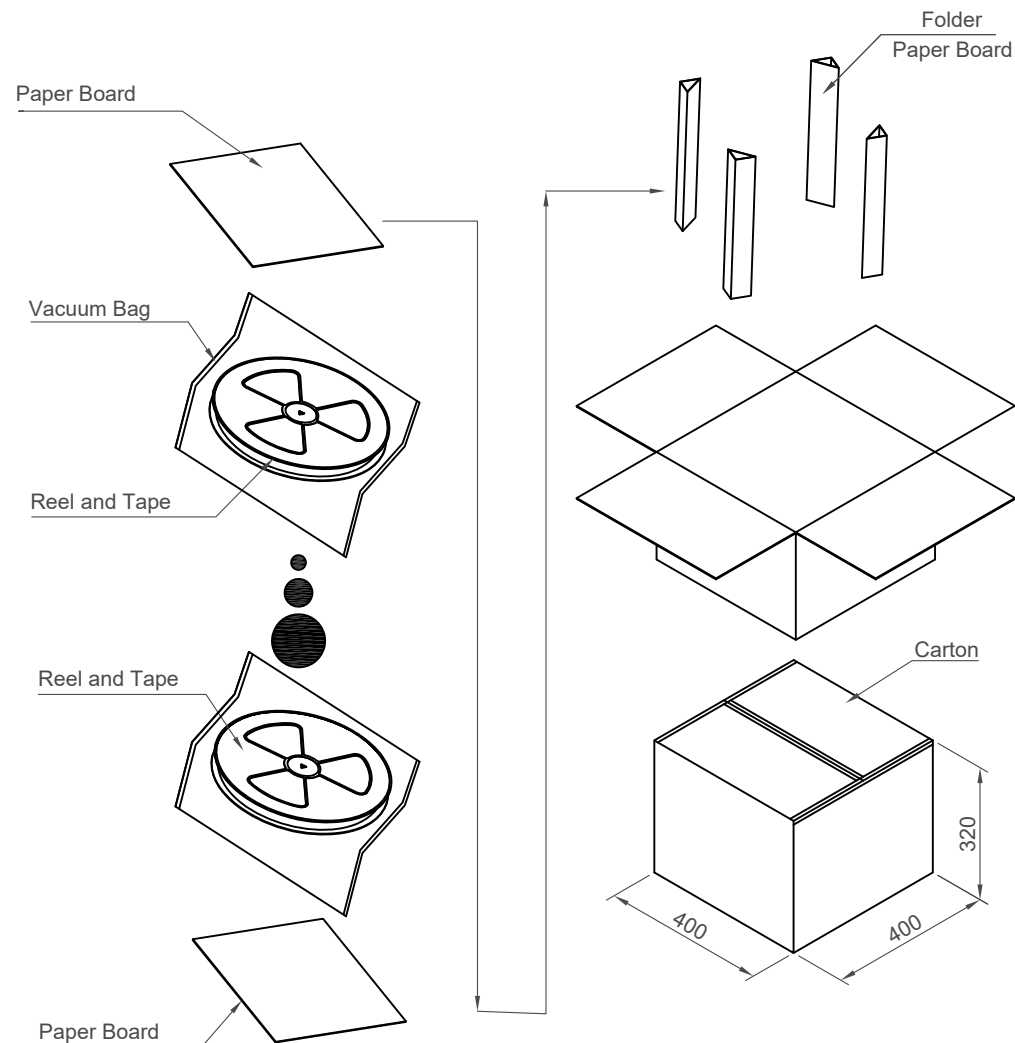
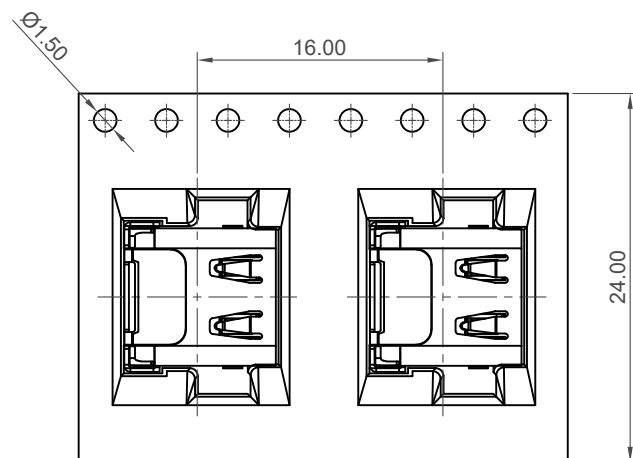
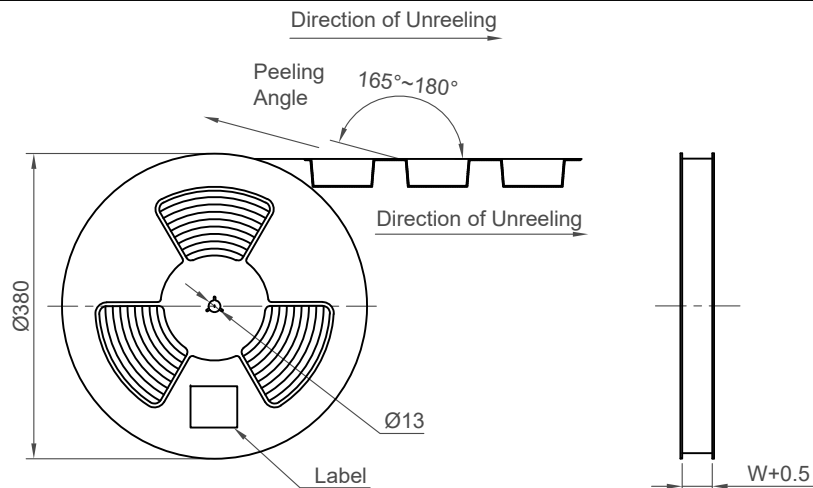
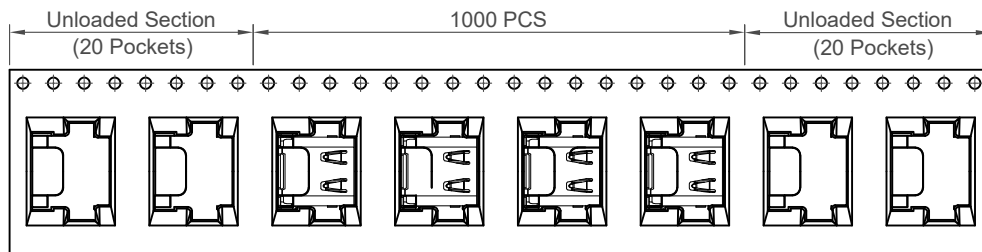
 Solder Area  Component Outline

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



Part Number			Product Description			<div> www.gct.co</div>
USB4056			USB3.2 Gen 2 Type C Receptacle, Horizontal, Hybrid type, PCB Top Mount.			
Drawing Date						
22nd April 2021						
By	CC	Tolerances (Except as Noted)		Units:	<div> </div> <div>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</div>	
Detail	Drawing Release	Length	Angle	Metric (mm)		
Revision	A2	X.X ± 0.30	-			
Date	05/08/21	X.XX ± 0.25		3rd Angle Projection		
		X.XXX ± 0.10				
Not to Scale		Drawn By CC		Sheet No. 2/3		

GCT
www.gct.co



Pcs / Reel	Reels / Carton	Total Quantity
1000	10	10,000 pcs

Part Number USB4056		Product Description USB3.2 Gen 2 Type C Receptacle, Horizontal, Hybrid type, PCB Top Mount.	
Drawing Date 22nd April 2021			
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	A2	-	3rd Angle Projection
Revision	05/08/21		
Date			



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

Not to Scale
Drawn By
CC
Sheet No.
3/3

Mouser Electronics

Authorized Distributor

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

[Global Connector Technology \(GCT\):](#)

[USB4056-03-A](#)