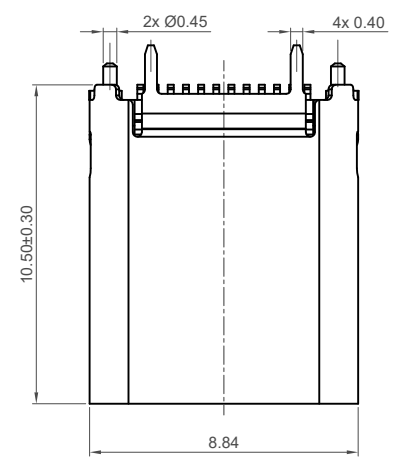
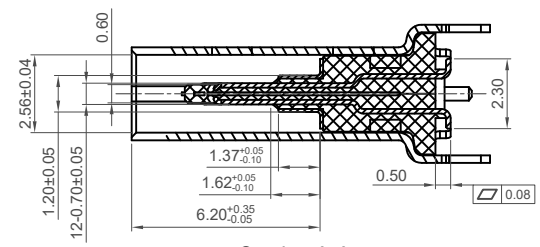
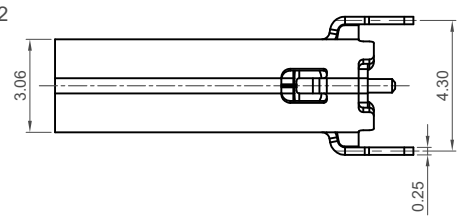
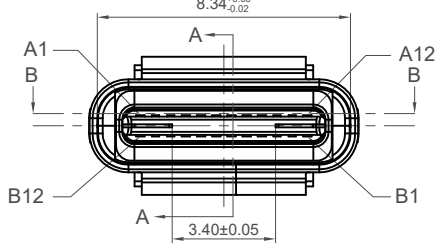
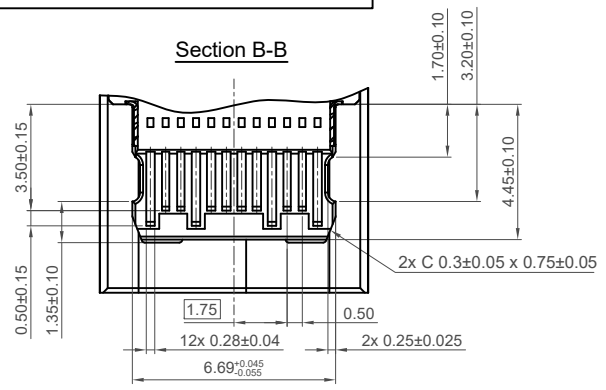


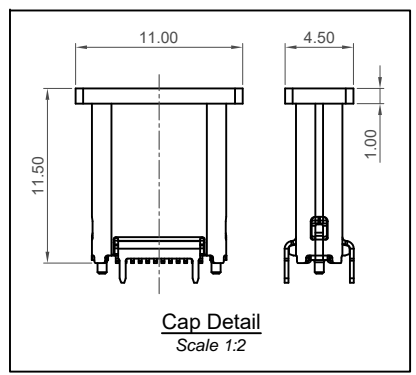
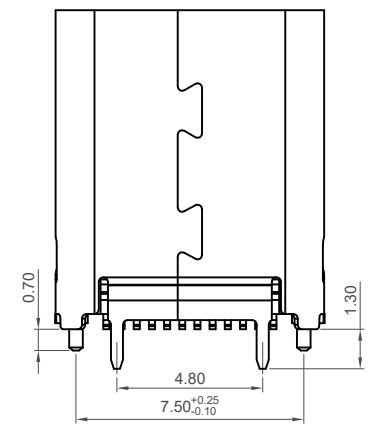
GCT USB4070 is designed and manufactured to be compatible with USB Type C specification latest release. Compliance testing for products conforming to the USB type-C cable and connector specification are currently under development by the USB-IF.



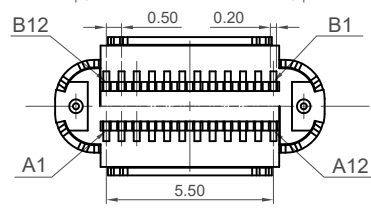
Section B-B



Section A-A



Cap Detail  
Scale 1:2



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	Dp1	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 规格

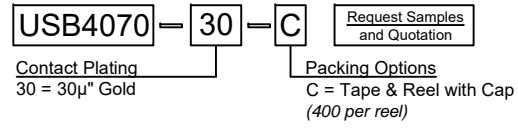
**Material 物料**  
 Insulator: High Temp. Plastic UL 94V-0, Black  
 Contact: High Grade Copper Alloy (T=0.15mm)  
 Shell: Stainless steel (T=0.25mm)  
 Inner Ground Cover Shell: Stainless Steel (T=0.10mm)  
 Mid Plate: Stainless Steel (T=0.10mm)

**Plating 电镀**  
 Contact: 30µ" Gold over 50µ" min. Nickel  
 Solder Tails: 80µ" min. Matte Tin over 50µ" min. Nickel  
 Shell: 50µ" min. Nickel  
 Cover Shell: 80µ" min. Nickel  
 Inner Ground Cover Shell: 50µ" min. Nickel

**Electrical 电气**  
 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 机械 & 环境**  
 Operating Temperature: -40°C to 85°C  
 Mating Force: 5 to 20 N.  
 Unmated Force: 6 to 20 N after test  
 Durability: 10,000 cycles

Ordering Grid



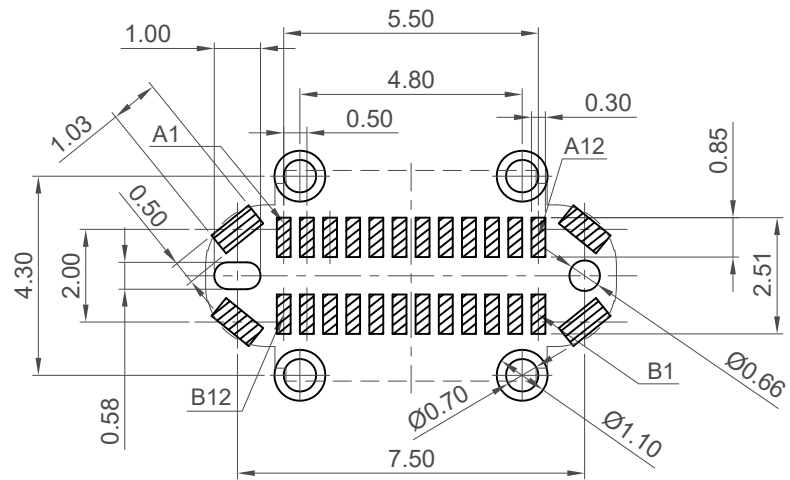
Part Number		Product Description	
USB4070		USB Type C Receptacle	
Drawing Date		Vertical, SMT with Shell Stakes & Locating Pegs	
5th May 2016			
By	CC	Tolerances (Except as Noted)	Units:
Detail	USB4070	Length	Metric (mm)
Revision	C PCN	X. ± 0.50	± 2°
Date	C1	X.X ± 0.30	
	06/09/16	X.XX ± 0.20	
		X.XXX ± 0.10	



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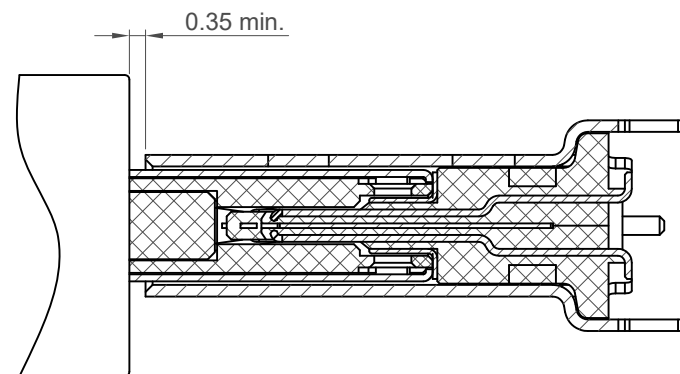
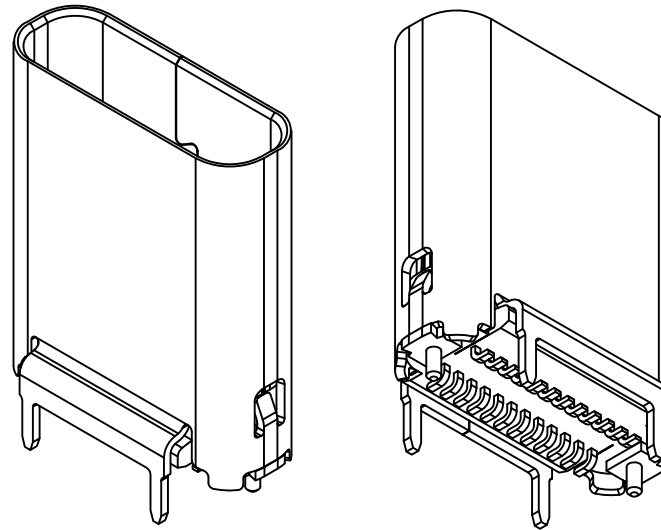


**Recommended PCB Layout**





*as viewed from component side*

Recommended PCB Thickness: 1.20mm Tolerance:  $\pm 0.05\text{mm}$

 Solder Area  Component Outline

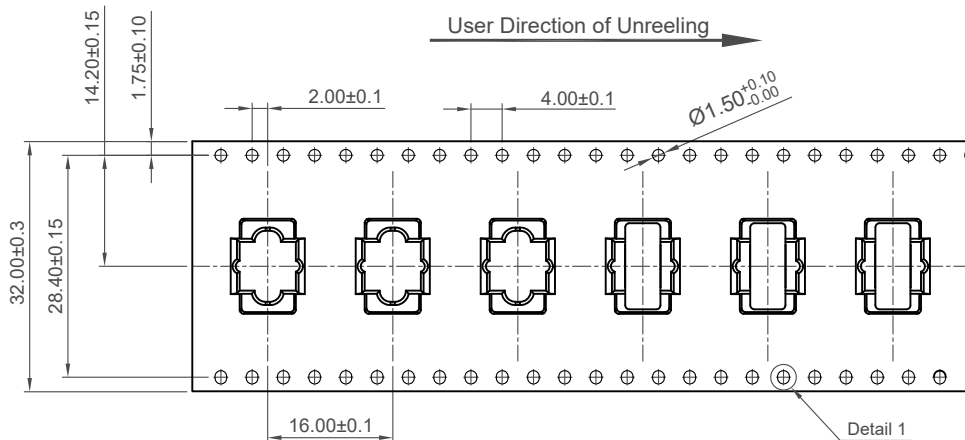
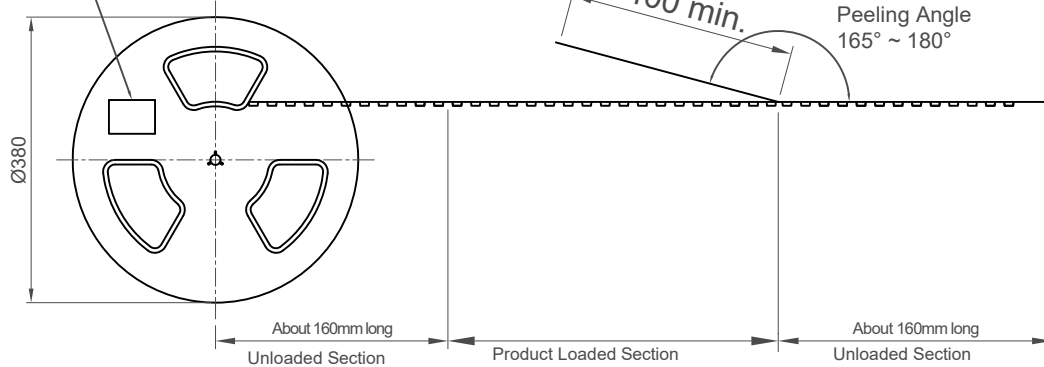


**Mating View**

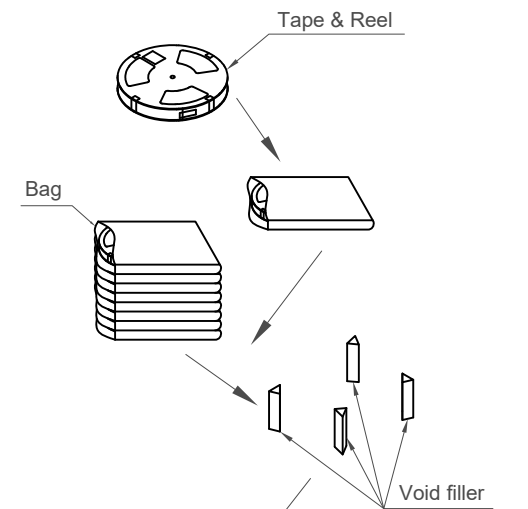
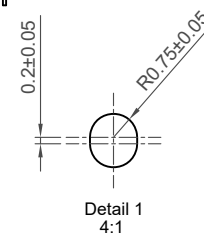
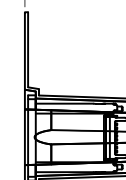
Part Number		Product Description		 <a href="http://www.gct.co">www.gct.co</a>
USB4070		USB Type C Receptacle		
Drawing Date		Vertical, SMT with Shell Stakes & Locating Pegs		
5th May 2016				  This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE
By	CC	Tolerances (Except as Noted)	Units:	
Detail	USB4070 C PCN	Length X: $\pm 0.50$ X.X: $\pm 0.30$ X.XX: $\pm 0.20$ X.XXX: $\pm 0.10$	Metric (mm)	
Revision	C1	Angle	$\pm 2^\circ$	
Date	06/09/16		 3rd Angle Projection	
Not to Scale	Drawn By AJO	Sheet No. 2/3		

38.4  
32.4

LABEL



13.50±0.1



Inner carton dimensions  
390\*390\*310

Box dimensions  
405\*405\*330

**Note**

**1. Material**

- Box: Fibreboard, corrugated, double wall.
- Tape: Polystyrene, heat-resistant temperature: 120°C, Black colour.
- Reel: Polystyrene, heat-resistant temperature: 70°C, Blue colour.
- Bag: Polyethylene, heat-resistant temperature: 100°C.

2. Peeling strength: 0.1 ~ 1.3 N (10 ~ 130 grams)

3. Peeling speed: 300 mm/min.

4. Each bag includes desiccant.

Pcs / Reel	Reels / Carton	Total Quantity
400	8	3,200 pcs

Part Number		Product Description	
USB4070		USB Type C Receptacle	
Drawing Date		Vertical, SMT with Shell Stakes & Locating Pegs	
5th May 2016			
By	CC	Tolerances (Except as Noted)	Units:
Detail	USB4070	Length	Metric (mm)
Revision	C PCN	Angle	
Date	C1		
	06/09/16		



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