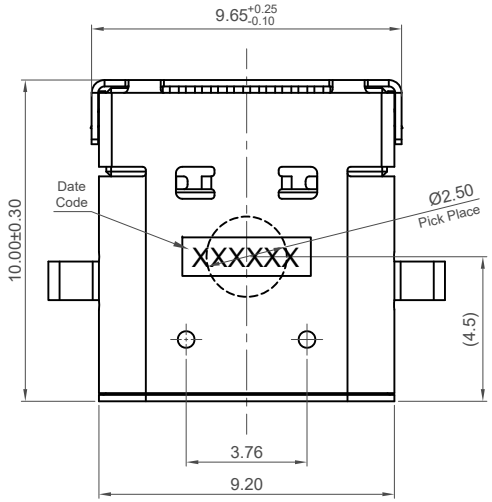
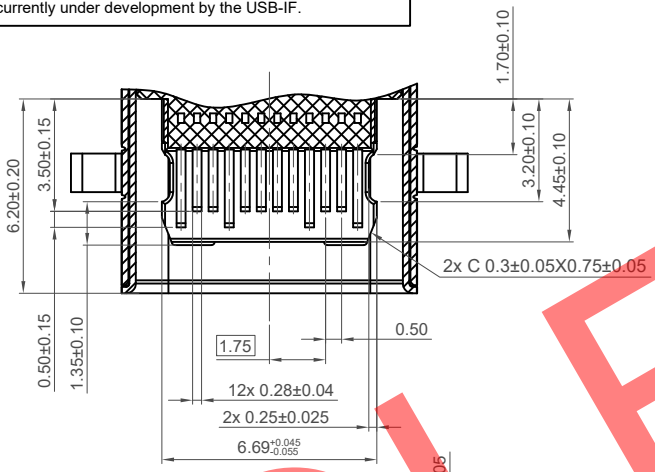
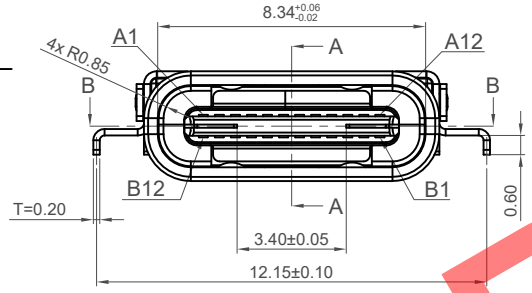


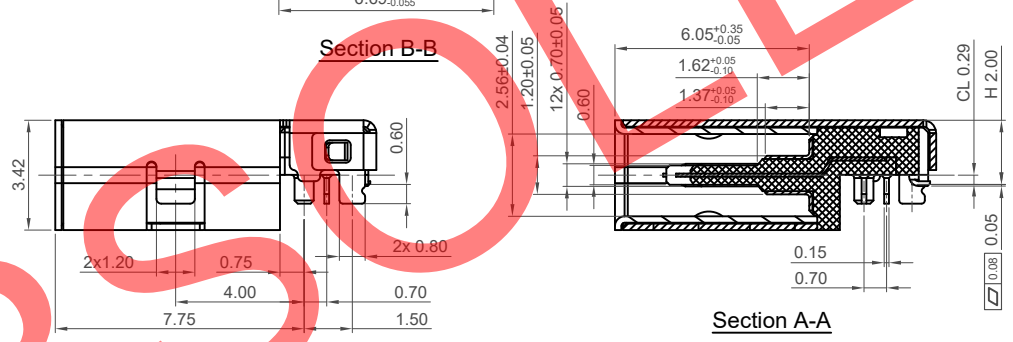
GCT USB4050 is designed and manufactured to be compatible with USB Type C specification latest release. Compliance testing for products conforming to the USB type-C cable and connector specification are currently under development by the USB-IF.



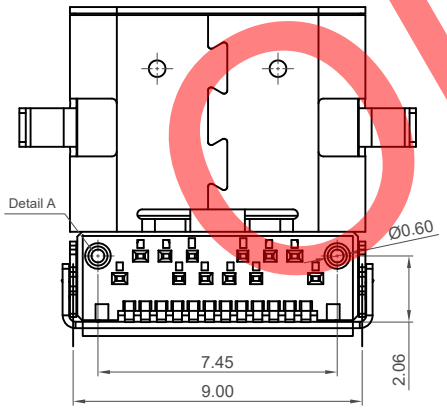
Section B-B

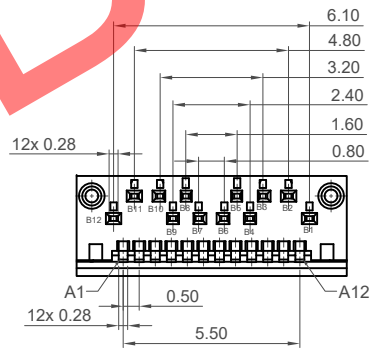
Pin	Signal	Mating Sequence	Pin	Signal	Mating Sequence
A1	GND	First	B12	GND	First
A2	SSTXp1	Second	B11	SSRXp1	Second
A3	SSTXn1	Second	B10	SSRXn1	Second
A4	VBUS	First	B9	VBUS	First
A5	CC1	Second	B8	SBU2	Second
A6	Dp1	Second	B7	Dn2	Second
A7	Dn1	Second	B6	Dp2	Second
A8	SBU1	Second	B5	CC2	Second
A9	VBUS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





Section A-A





Detail A

Ordering Grid

USB4050 — 30 — A

Request Samples and Quotation

Contact Plating
30 = 30µ" Gold

Packing Options
A = Tape & Reel
(1,000 per reel)

Specifications

Material
- Insulator: High Temp. Plastic UL 94V-0, Black
- Contact: High Grade Copper Alloy (T=0.15mm)
- Shell: Stainless steel (T=0.20mm)
- Cover Shell: Iron (T=0.20mm)
- Inner Ground Cover Shell: Stainless Steel (T=0.10mm)
- Mid Plate:Stainless Steel (T=0.10mm)

Plating
- 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
- 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

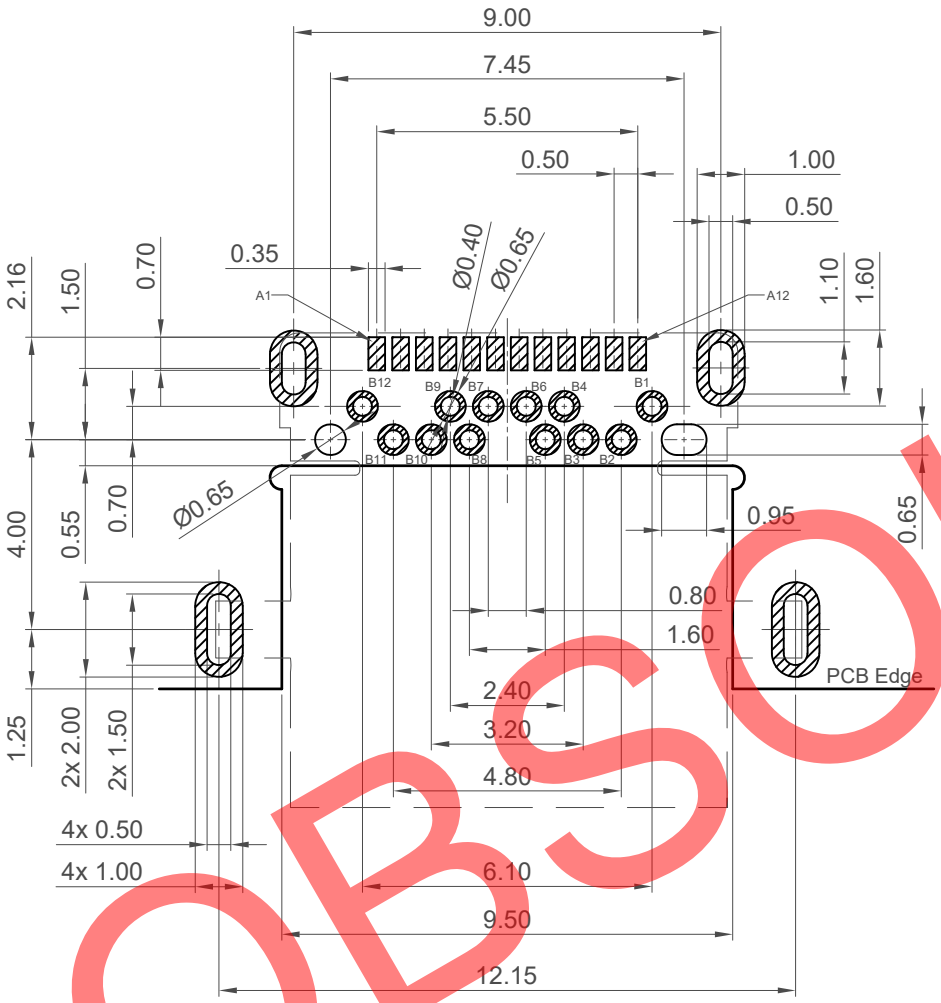
Mechanical & Environmental
- Operating Temperature: -40°C to 85°C
- Mating Force: 5 to 20 N.
- Unmated Force: 8 to 20 N after test
- Durability: 10,000 cycles

Part Number	Product Description
USB4050	USB Type C Receptacle Hybrid type, PCB Mid Mount, 1.00mm Offset
Drawing Date 21st April 2016	

By	CC	Tolerances (Except as Noted) Length	Angle	Units: Metric (mm)	RoHS COMPLIANT 2011/65/EU Dec-BDE	©	GCT www.gct.co
Detail	USB4050 X PCN	X. ± 0.50 X.X ± 0.30 X.XX ± 0.20 X.XXX ± 0.10	± 2°	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	
Revision	X						
Date	29/06/23						

Not to Scale	Drawn By AJO	Sheet No. 1/3

OBSOLETE

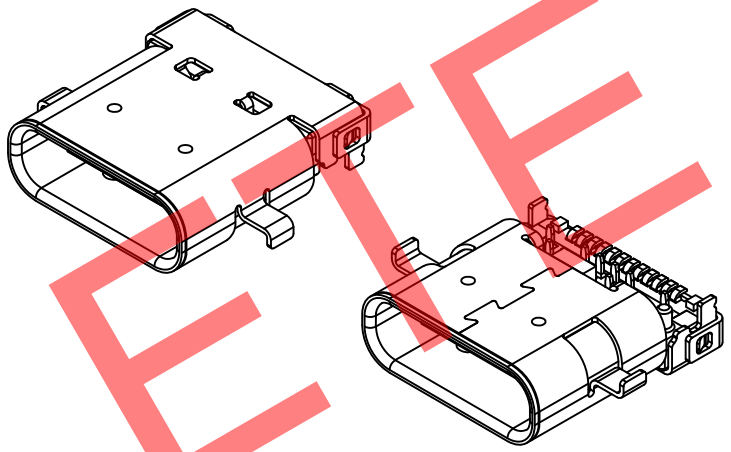


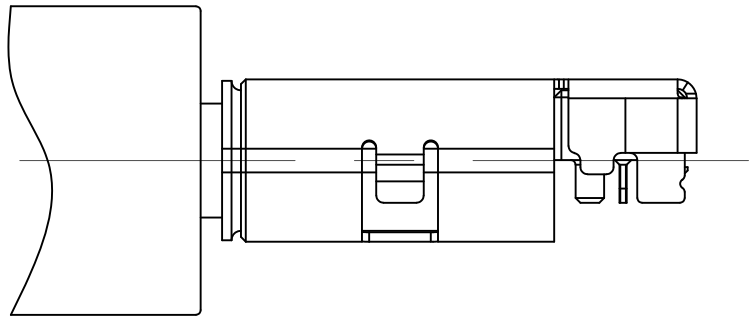
Recommended PCB Layout

As viewed from component side Tolerance:±0.05mm

Recommended PCB Thickness: 0.60mm

Solder Area Component Outline





Mating View

OBSOLETE

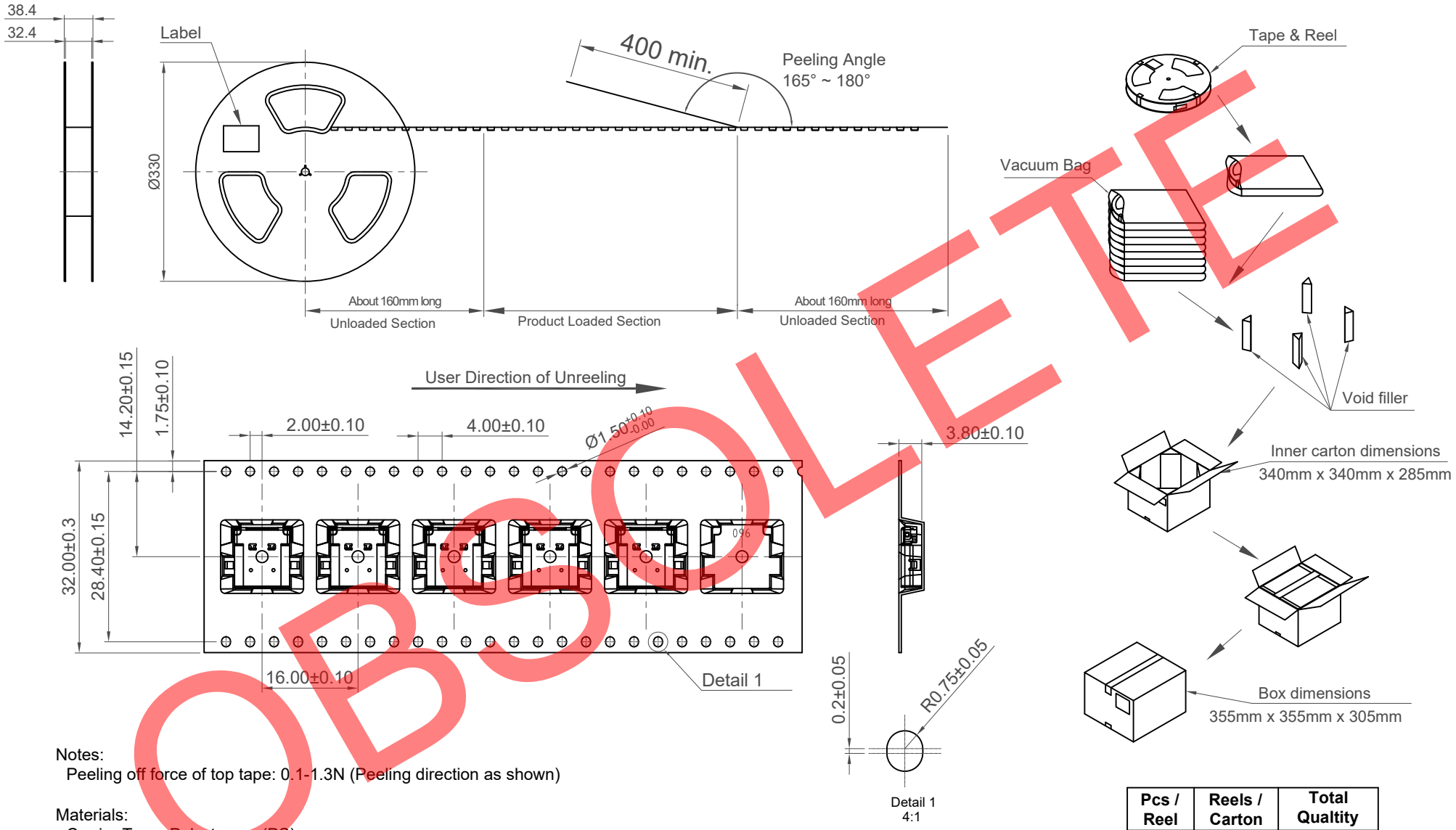
Part Number	Product Description
USB4050	USB Type C Receptacle Hybrid type, PCB Mid Mount, 1.00mm Offset
Drawing Date 21st April 2016	

By	CC	Tolerances (Except as Noted) Length	Angle	Units: Metric (mm)	RoHS COMPLIANT 2011/65/EU Deca-BDE
Detail	USB4050 X PCN	X. ± 0.50 X.X ± 0.30 X.XX ± 0.20 X.XXX ± 0.10	± 2°	3rd Angle Projection	
Revision	X				
Date	29/06/23				

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Not to Scale	Drawn By AJO	Sheet No. 2/3



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Notes:
Peeling off force of top tape: 0.1-1.3N (Peeling direction as shown)

Materials:
Carrier Tape: Polystyrene (PS)
Top Tape: PE
Reel Tape: Polystyrene (PS)
Bag: PE

Pcs / Reel	Reels / Carton	Total Qualtity
1000	7	7,000 pcs

Part Number		Product Description						
USB4050		USB Type C Receptacle Hybrid type, PCB Mid Mount, 1.00mm Offset						
Drawing Date								
21st April 2016								
By	CC	Tolerances (Except as Noted)		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	USB4050 X PCN	Length	Angle					
Revision	X	X. ± 0.20 X.X ± 0.15 X.XX ± 0.10 X.XXX ± 0.05	± 1°	3rd Angle Projection			Not to Scale	Drawn By AJO
Date	29/06/23							Sheet No. 3/3

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Global Connector Technology:

05-22-A-0050-A-4-06-4-T BC075-04-A-L-A BD125-30-A-0305-0580-L-B BF100-20-A-D-0-0640-L-C BG125-05-A-1-1-0440-N-D BG300-04-A-L-A USB4500-03-0-A BF030-06A-B0-0200-0277-0600-L-B FFC3A20-13-G USB3510-30-C 05-14-A-0203-A-4-06-4-T 05-28-A-0203-A-4-06-4-T 05-32-A-0050-A-4-06-4-T 05-40-D-0076-A-4-06-4-T USB4510-03-1-A 05-10-A-0279-A-4-06-4-T 05-12-D-0304-A-4-06-4-T BF100-12-A-D-0-0640-L-C FFC2B35-24-T 05-15-A-0254-A-4-06-4-T 05-30-D-0050-A-4-06-4-T BD080-10-A-0230-L-D BF121-18-A-0-L-C BF121-04-A-0-L-C USB4140-GF-0230-C 10-15-A-0101-C-4-08-4-T 10-16-D-0101-C-4-08-4-T 05-08-A-0050-A-4-06-4-T BF030-06A-B0-0360-0277-0600-L-B BF135-18-A-0200-0700-0400-L-C