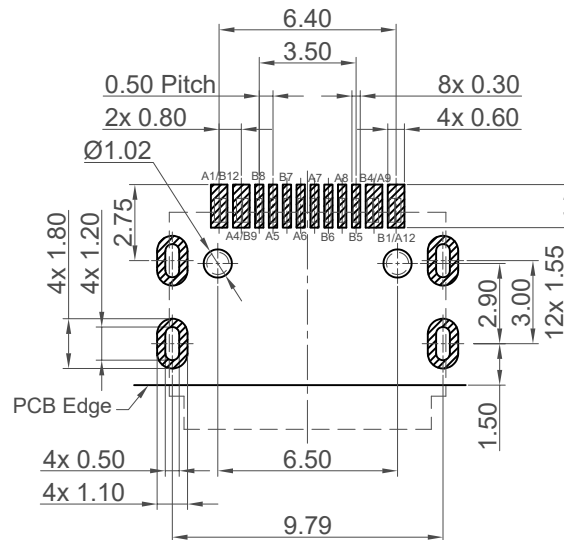
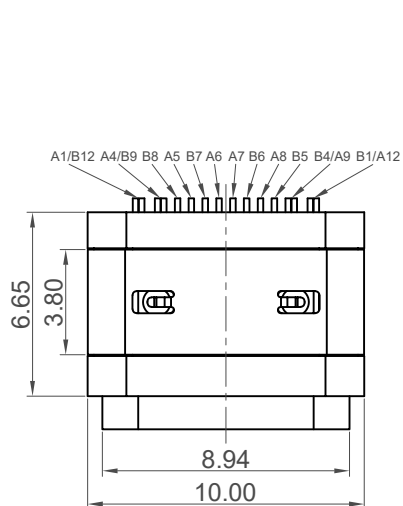


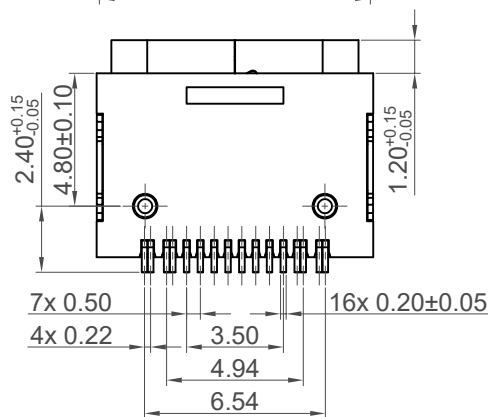
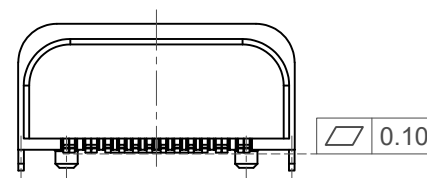
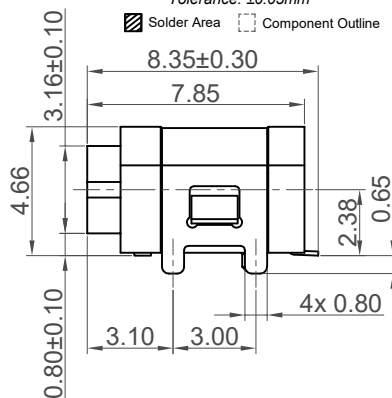
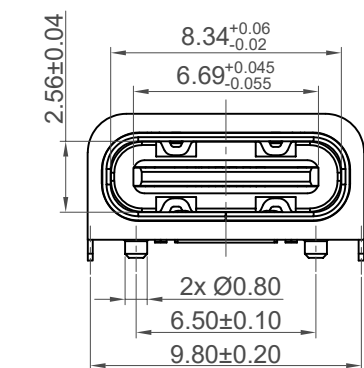


Recommended PCB Layout

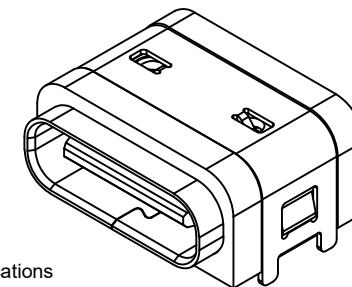
Thickness 1.20±0.10mm

Tolerance: ±0.05mm

■ Solder Area □ Component Outline



Pin	Signal	Mating Sequence	Pin	Signal	Mating Sequence
A1	GND	First	B12	GND	First
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
A12	GND	First	B1	GND	First
SHELL	GND		SHELL	GND	



Specifications

Material

Insulator: LCP, UL 94V-0, Black

Insulator Shell: High Temperature Nylon, UL 94V-0, Black

Contact: Copper Alloy

Shell: Stainless Steel

Mid Plate: Stainless Steel

Gasket: Silicone Rubber, Part No.: USBTJ-04,

Shore Hardness 60A

(Gasket+Connector can be ordered separately or together as a KIT)

Plating

Contact

Contact Area: Gold Flash

Solder Tails: Gold Flash

Underplating: 30µ" min. Nickel

Shell: 40µ" min. Nickel

Mid 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 others 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: -30°C to +85°C

Mating Force: 5 to 20 N.

Unmated Force: 6 to 20 N after test

Durability: 20,000 cycles

Ingress Protection Rating: IP67

Ordering Grid

USB4731 - GF - A - XXX

Request Samples and Quotation

Contact Plating

GF = Gold Flash

Packing Options

A = Tape & Reel (600 per reel)

Gasket Options

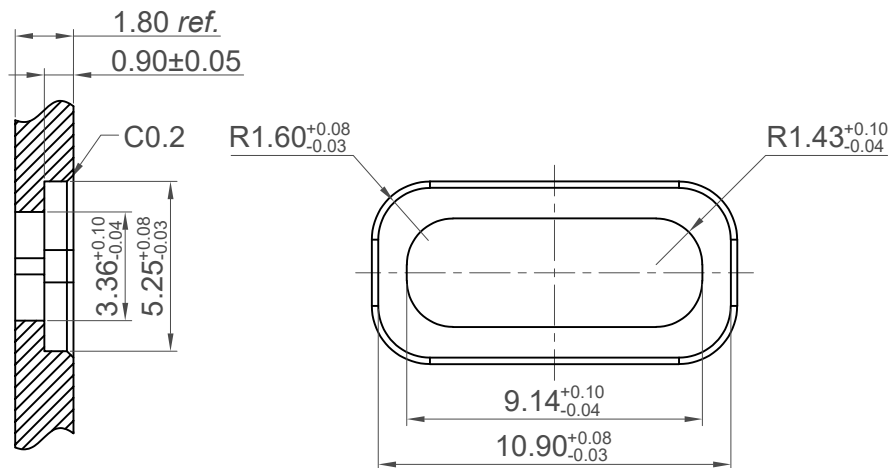
KIT = Includes Gasket: USBTJ-04

Blank = Connector Only (Without gasket)

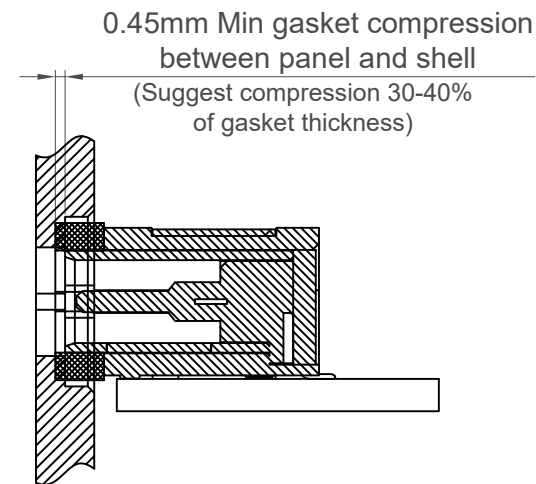
Part Number			Product Description		
USB4731			Type C Receptacle For USB2.0, With Shell Spring, SMT, Top Mount, Horizontal, IP67, 16Pin		
Drawing Date					
19th May 2026					
By	KY	Tolerances (Except as Noted)		Units:	This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE
Detail	Drawing Release	Length	Angle	Metric (mm)	
Revision	A	X.X ± 0.20	-		
Date	19/05/26	X.XX ± 0.15		3rd Angle Projection	
		X.XXX ± 0.10		RoHS COMPLIANT 2011/65/EU Deca-SIDE	
 www.gct.co					
Not to Scale			Drawn By KY		Sheet No 1/4

USB-IF TID NO.: 15765
IEC 62680-1-3: 2022

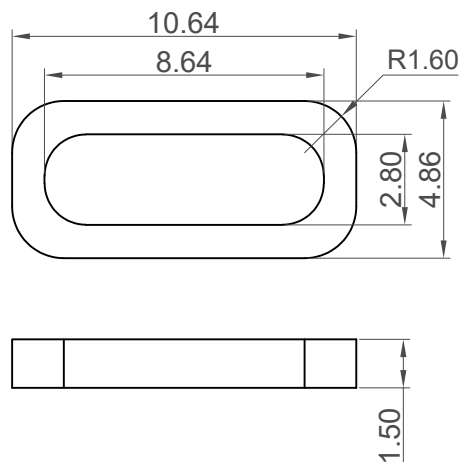
GCT
www.gct.co



Recommended Panel Spec



(Suggest compression 30-40% of gasket thickness)

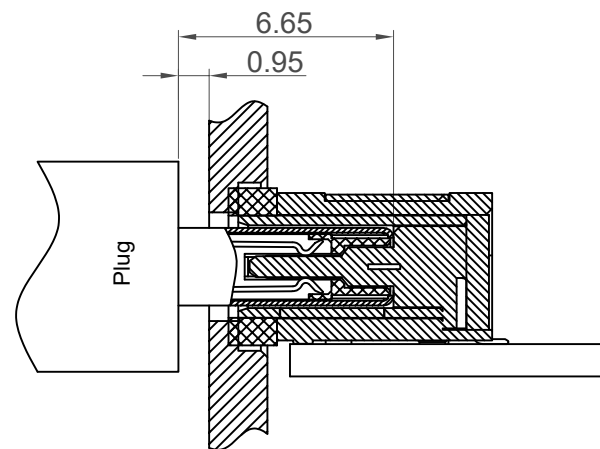


Recommended Waterproof Gasket

Gasket Part No.: USBTJ-04

(Gasket+Connector can be ordered separately
or together as a KIT)

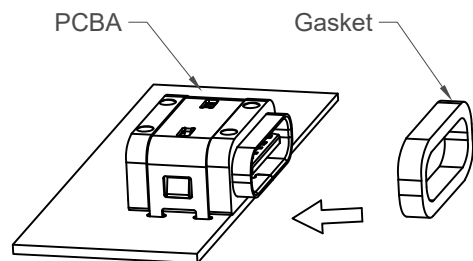
(See separate datasheet for specification)



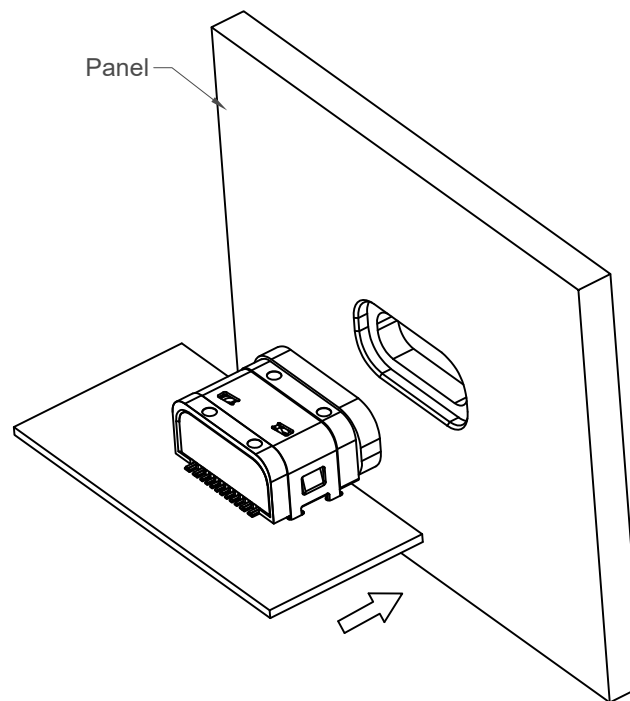
Plug and Receptacle Mating View

Part Number		Product Description		
USB4731		Type C Receptacle For USB2.0, With Shell Spring,		
Drawing Date		SMT, Top Mount, Horizontal, IP67, 16Pin		
19th May 2026				
By	KY	Tolerances (Except as Noted)	Units:	
Detail	Drawing Release	Length	Metric (mm)	
Revision	A	Angle		
Date	19/05/26	X.X ± 0.30		
		X.XX ± 0.25		
		X.XXX ± 0.10		
				
		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	Sheet No.	
		KY	2/4	

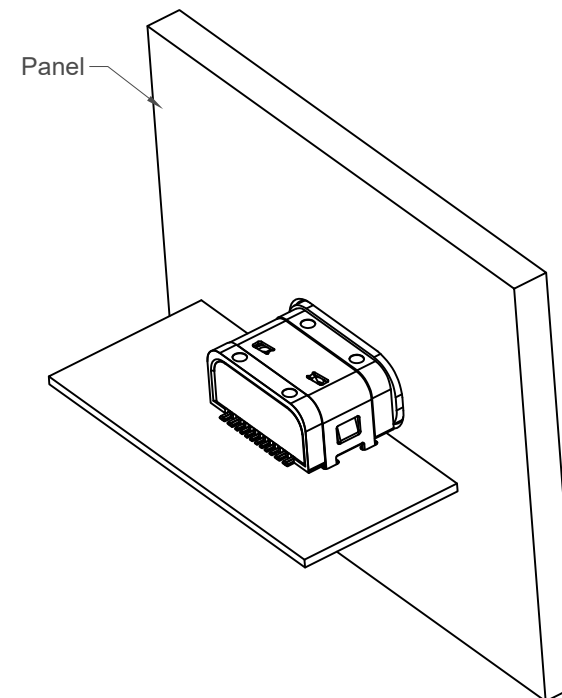
GCT
www.gct.co



Step 1



Step 2



Step 3

Assembly instruction for Gasket set after Reflow
Available for Type C Receptacle Waterproof Series

Part Number		Product Description	
USB4731		Type C Receptacle For USB2.0, With Shell Spring,	
Drawing Date		SMT, Top Mount, Horizontal, IP67, 16Pin	
19th May 2026			
By	KY	Tolerances (Except as Noted)	Units:
Detail	Drawing Release	Length	Metric (mm)
Revision	A	Angle	
Date	19/05/26		



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



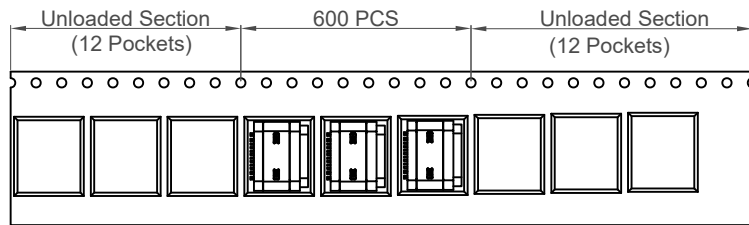
Not to Scale



Drawn By KY

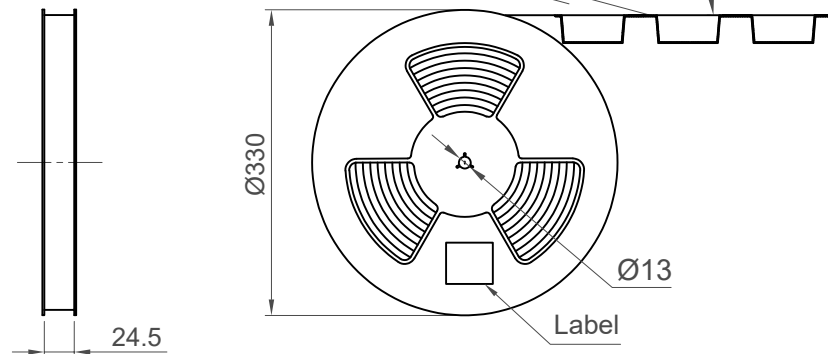
Sheet No. 3/4

H
G
F
E
D
C
B
A

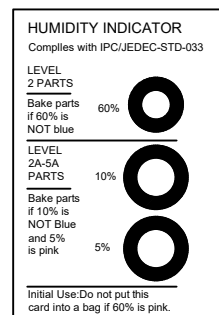
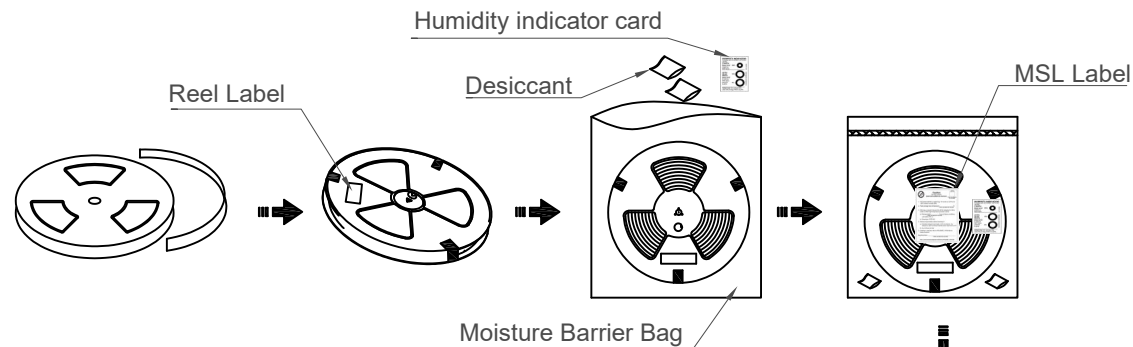
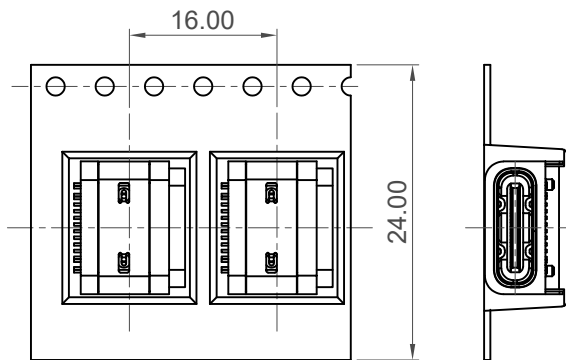


Direction of Unreeling

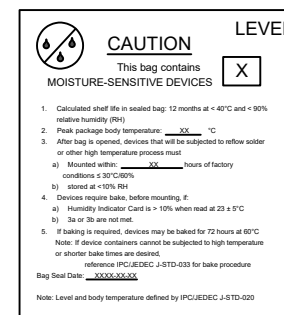
Peeling Angle 165°~180°



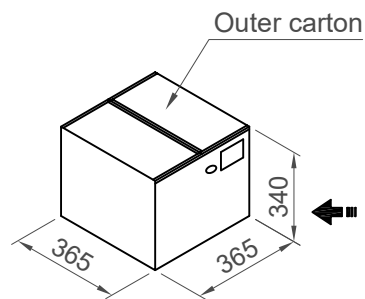
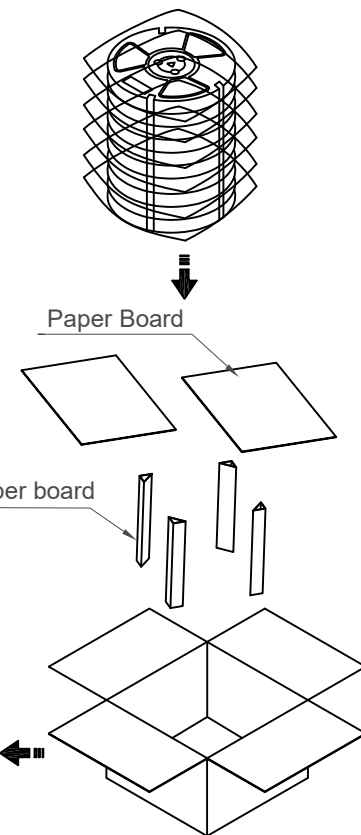
Direction of Unreeling



Humidity indicator card



MSL Label



Pcs / Reel	Reels / Carton	Total Quantity
600	10	6,000 pcs

Part Number USB4731		Product Description Type C Receptacle For USB2.0, With Shell Spring, SMT, Top Mount, Horizontal, IP67, 16Pin	
Drawing Date 19th May 2026			
By Detail	KY Drawing Release	Tolerances (Except as Noted) Length Angle	Units: Metric (mm)
Revision Date	A 19/05/26	-	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

GCT
www.gct.co

Not to Scale
Drawn By
KY
Sheet No.
4/4