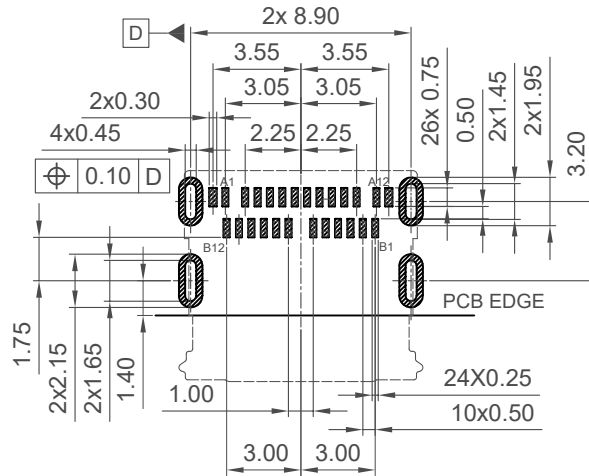
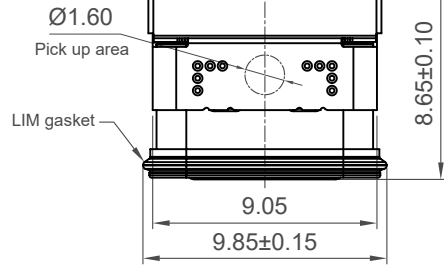




Recommended PCB Layout

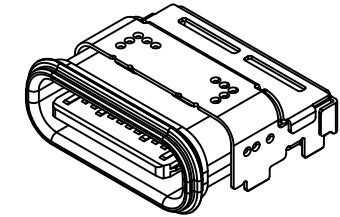
Thickness 0.6±0.10mm

Tolerance: ±0.05mm

▨ Solder Area □ Component Outline

Pin	Signal	Mating Sequence
A1	GND	First
A2	SSTXp1	Second
A3	SSTXn1	Second
A4	Vbus	First
A5	CC1	Second
A6	Dp1	Second
A7	Dn1	Second
A8	SBU1	Second
A9	Vbus	First
A10	SSRXn2	Second
A11	SSRXp2	Second
A12	GND	First
SHELL	GND	

Pin	Signal	Mating Sequence
B12	GND	First
B11	SSRXp1	Second
B10	SSRXn1	Second
B9	Vbus	First
B8	SBU2	Second
B7	Dn2	Second
B6	Dp2	Second
B5	CC2	Second
B4	Vbus	First
B3	SSTXn2	Second
B2	SSTXp2	Second
B1	GND	First
SHELL	GND	



Specifications

Material

Insulator: PA46, UL 94V-0, Black
Contact: Copper Alloy
Shell: Stainless Steel
EMI Shell: Stainless Steel
Mid Plate: Stainless Steel
Gasket: Silicone Rubber, Black, Shore Hardness 60A

Plating

Contact

Contact Area: See Ordering Grid
Solder Tails: Gold Flash
Underplating: 50μ" - 100μ" Nickel
Shell: 50μ" min. Nickel
EMI Shell: 50μ" min. Nickel
Mid Plate: 50μ" min. Nickel

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 100MQ min

Mechanical & Environmental

Operating Temperature: -30°C to +85°C

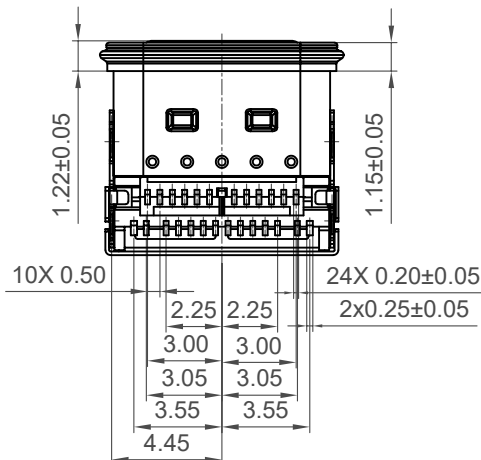
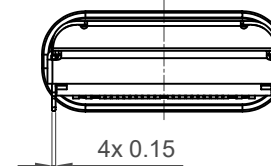
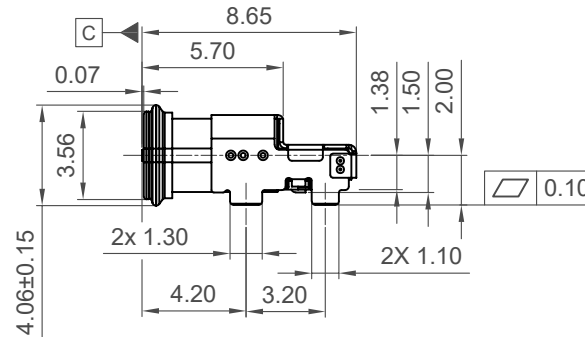
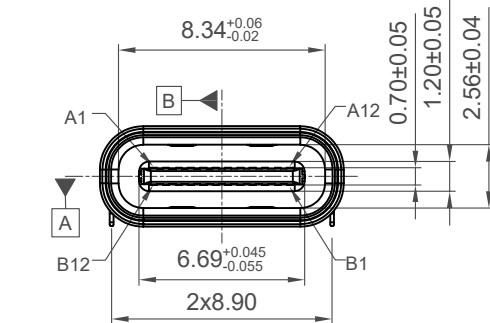
Mating Force: 5 to 20 N.

Unmated Force: 6 to 20 N after test

Durability: 20,000 cycles

Ingress Protection Rating: IP68

(IPX8, 1.5m depth, 30mins duration)



Ordering Grid

USB4745 = XX = A

Request Samples and Quotation

Contact Plating

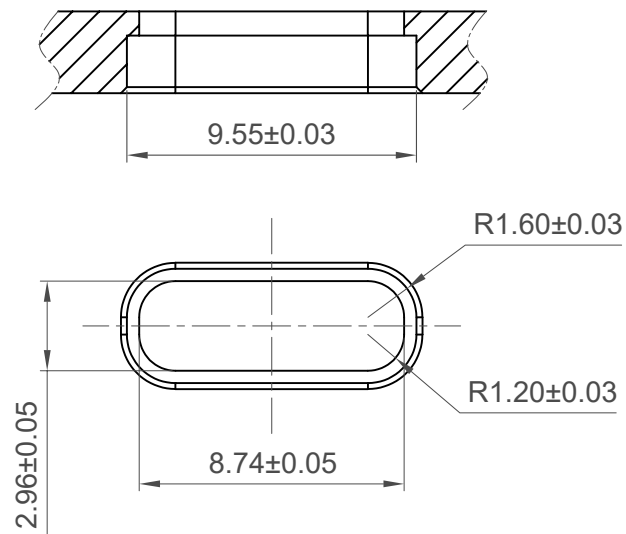
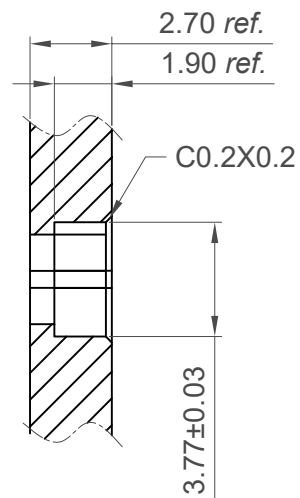
03 = 3μ" Gold (Standard)

15 = 15μ" Gold

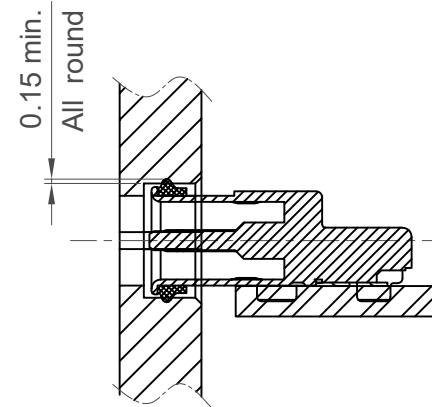
Packing Options

A = Tape & Reel (800 per reel)

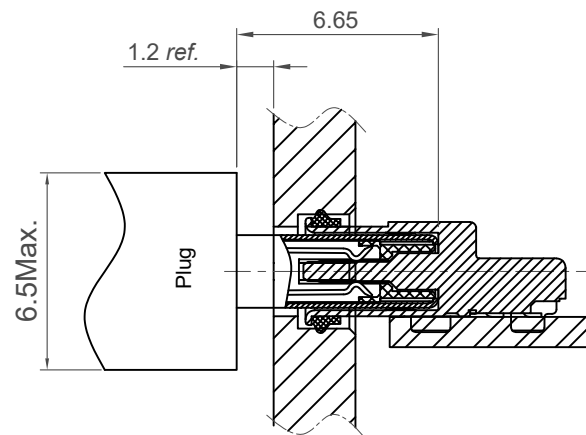
Part Number			Product Description		
USB4745			USB3.2 Gen2, Type C Receptacle, SMT Type, Top Mount		
Drawing Date			Horizontal, IP68, 24 Pin		
5th January 2024					
By	CC	Tolerances (Except as Noted)		Units:	This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE
Detail	Drawing Release	Length	Angle	Metric (mm)	
Revision	A1	X.X ± 0.20	-		
Date	27/09/24	X.XX ± 0.15		3rd Angle Projection	
		X.XXX ± 0.10		</	



Recommended Panel Spec



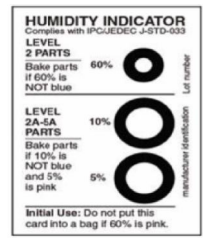
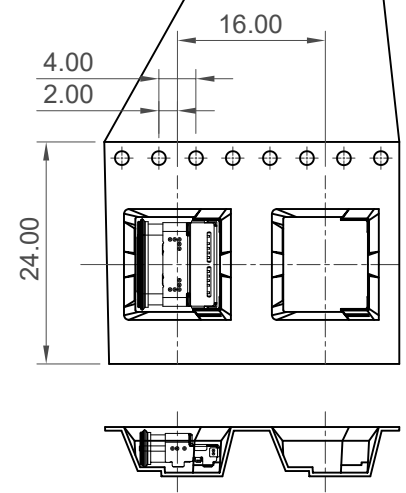
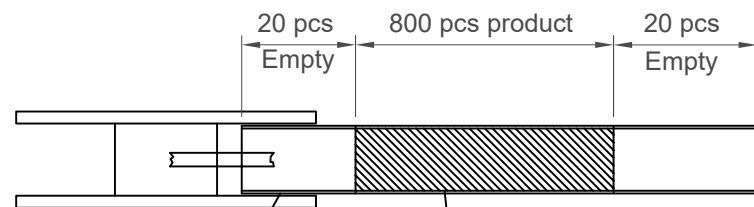
Gasket compression between panel and shell



Gasket compression between panel and shell

Part Number		Product Description		
USB4745		USB3.2 Gen2, Type C Receptacle, SMT Type, Top Mount		
Drawing Date		Horizontal, IP68, 24 Pin		
5th January 2024				
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	Metric (mm)	
Revision	A1	X.X ± 0.20		
Date	27/09/24	X.XX ± 0.15		
		X.XXX ± 0.10		
		Angle		 3rd Angle Projection
				 www.gct.co
				Not to Scale Drawn By CC Sheet No. 2/3

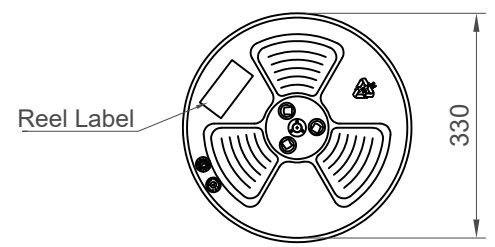
H
G
F
E
D
C
B
A



Humidity indicator card



MSL Label



Reel Label

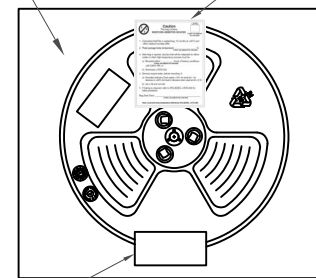


Humidity indicator card

Desiccant

Vacuum Bag

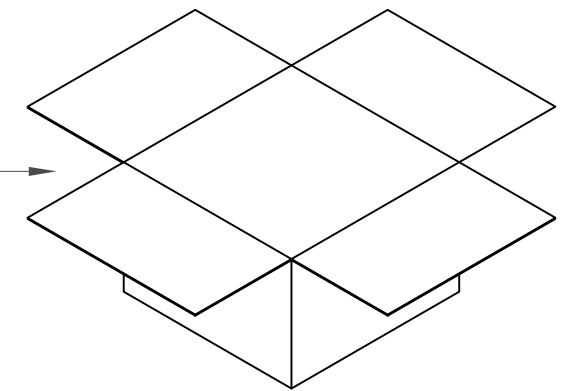
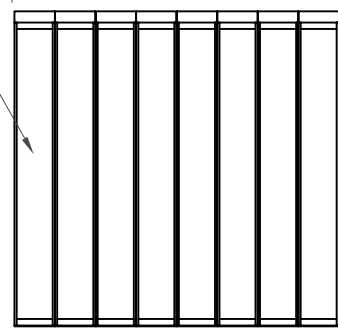
MSL Label



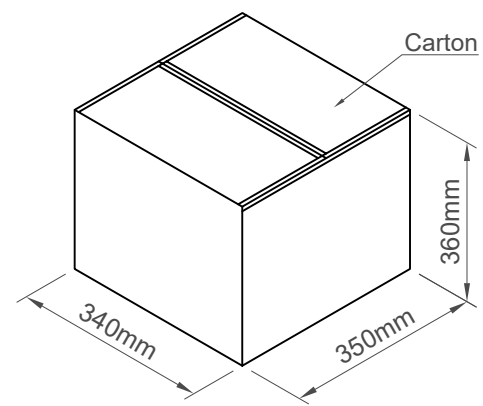
Vacuum Bag Label

9 Reels

Inner Box



Carton



Pcs / Reel	Reels / Carton	Total Quantity
800	9	7,200 pcs

Part Number			Product Description			 www.gct.co		
USB4745			USB3.2 Gen2, Type C Receptacle, SMT Type, Top Mount Horizontal, IP68, 24 Pin					
Drawing Date								
5th January 2024								
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		
		Length	Angle	Metric (mm)				
Detail		Drawing Release		 3rd Angle Projection				
Revision		A1						
Date		27/09/24						
		X.X ± 0.20		-				
		X.XX ± 0.15						
		X.XXX ± 0.10						
						Not to Scale		
						Drawn By CC		
						Sheet No. 3/3		



Mouser Electronics

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[USB4745-15-A](#) [USB4745-03-A](#)