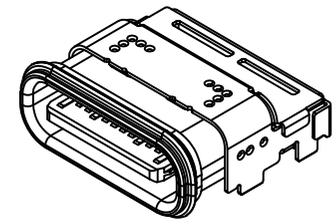


Recommended PCB Layout
 Thickness 0.6±0.10mm
 Tolerance: ±0.05mm

▨ 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

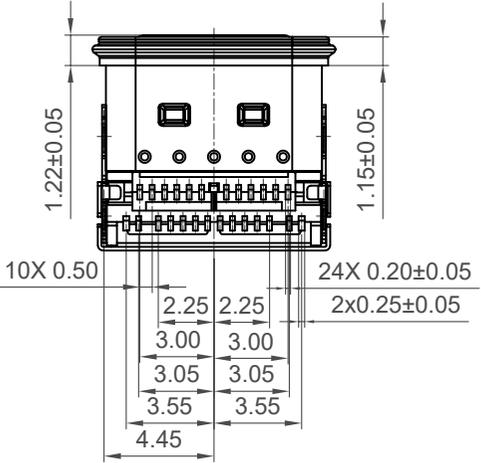
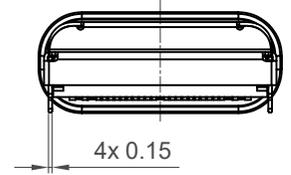
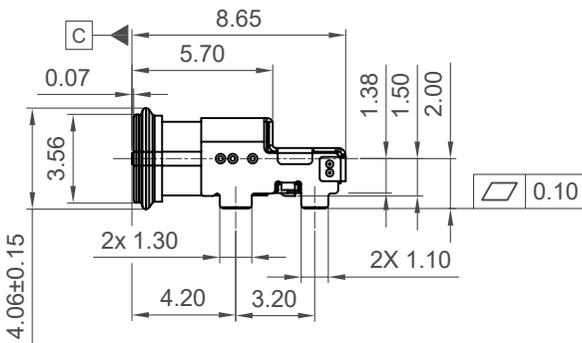
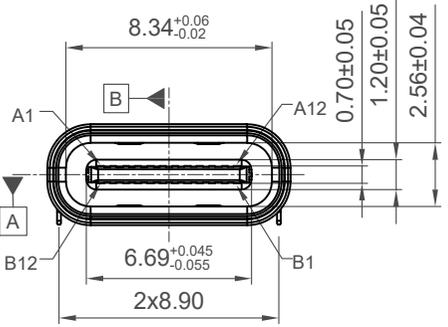
Contact
 Contact Area: See Ordering Grid
 Solder Tails: Gold Flash
 Underplating: 50µ" - 100µ" Nickel
 Shell: 50µ" min. Nickel
 EMI Shell: 50µ" min. Nickel
 Mid Plate: 50µ" min. Nickel

Electrical

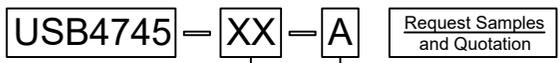
Current Rating: 5.00A collectively for Vbus pins
 6.25A collectively for GND pins
 1.25A for A5/B5 pin
 0.25A per pin for all others pins
Voltage Rating: 48V DC
Power Rating: 240W
Contact Resistance: 40mΩ max initial.
 50mΩ max after test
Dielectric Withstanding Voltage: 100V AC
Insulation Resistance: 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



Contact Plating
 03 = 3µ" Gold (Standard)
 15 = 15µ" Gold

Packing Options
 A = Tape & Reel (800 per reel)

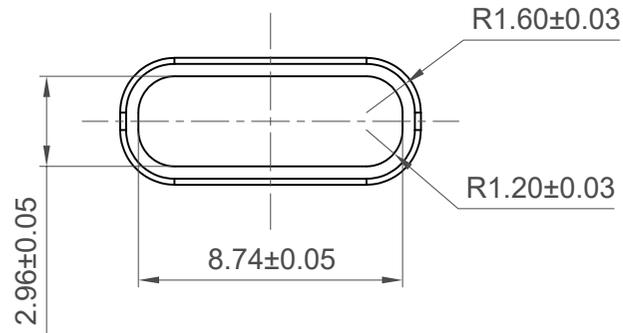
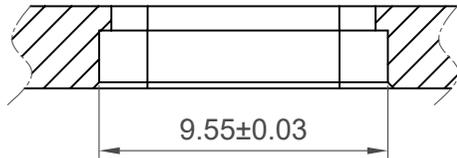
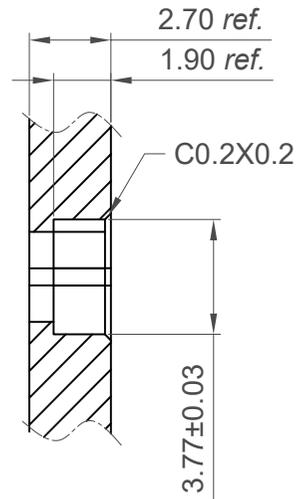
Part Number		Product Description	
USB4745		USB3.2 Gen2, Type C Receptacle, SMT Type, Top Mount	
Drawing Date		Horizontal, IP68, 24 Pin	
5th January 2024			
By	CC	Tolerances (Except as Noted)	Units:
Detail	Drawing Release	Length	Metric (mm)
Revision	A1	Angle	
Date	27/09/24	X.X ± 0.20	
		X.XX ± 0.15	
		X.XXX ± 0.10	



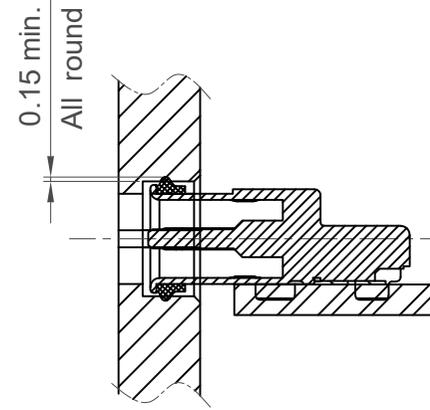
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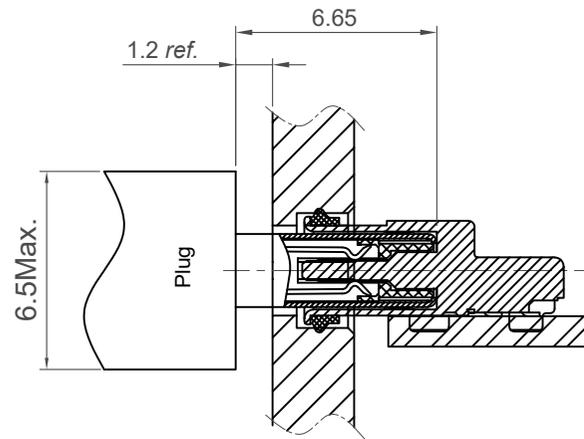
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Recommended Panel Spec



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:
Detail	Drawing Release	Length	Metric (mm)
Revision	A1	X.X ± 0.20	
Date	27/09/24	X.XX ± 0.15	
		X.XXX ± 0.10	
			3rd Angle Projection

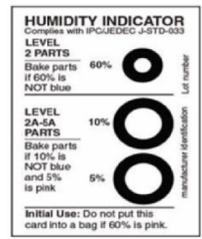
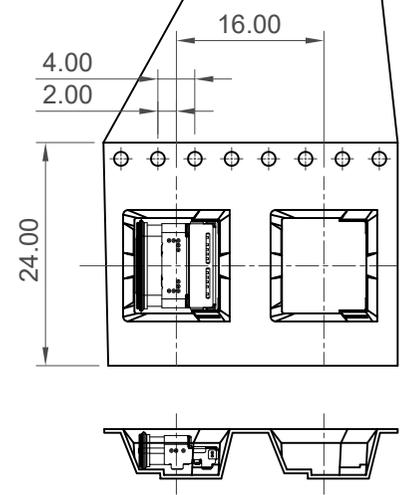
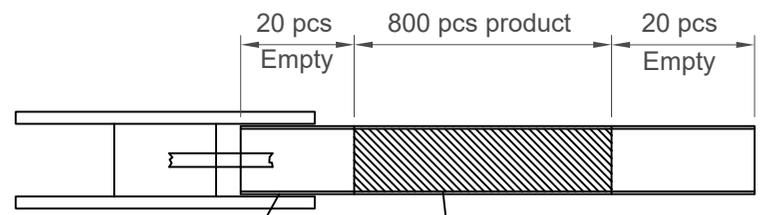


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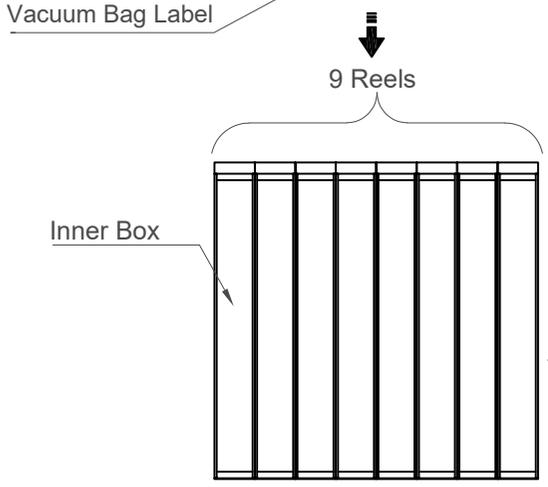
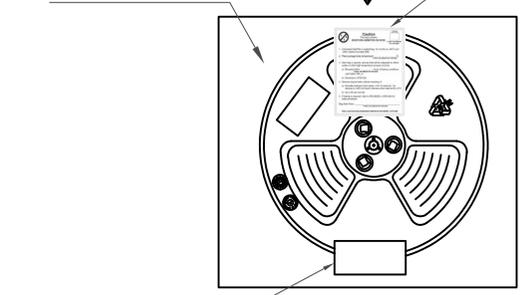
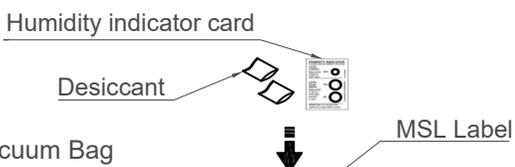
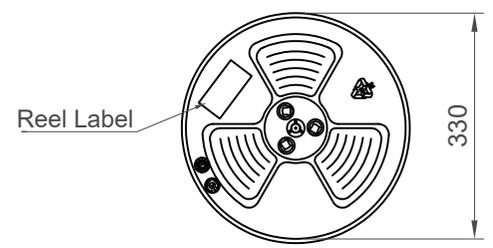
H
G
F
E
D
C
B
A



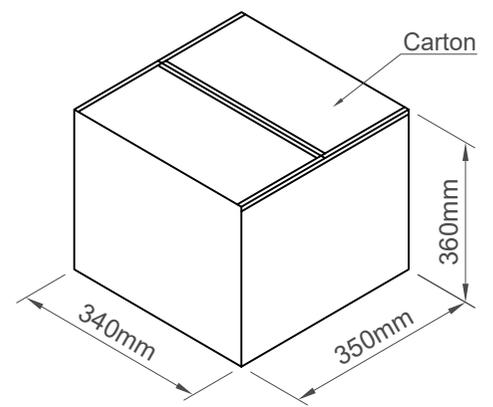
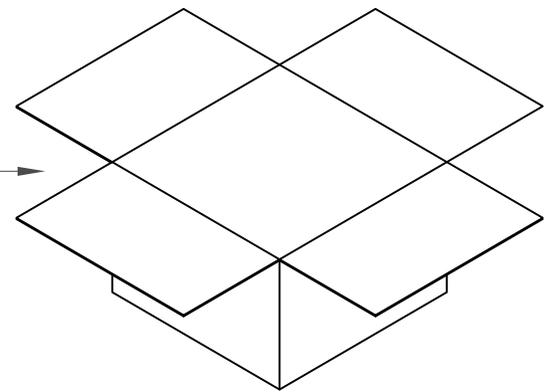
Humidity indicator card



MSL Label



Inner Box



Carton

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

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:
Detail	Drawing Release	Length	Metric (mm)
Revision	A1	X.X ± 0.20	
Date	27/09/24	X.XX ± 0.15	
		X.XXX ± 0.10	



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1 2 3 4 5 6 7 8