

MODEL: UJ32-C-H-G-SMT-4-P24-TR-68 | **DESCRIPTION:** USB RECEPTACLE**FEATURES**

- USB Type C receptacle
- USB 3.2 Gen 1
- 5 Gbits/s data transfer speed
- IPX8
- tape & reel packaging

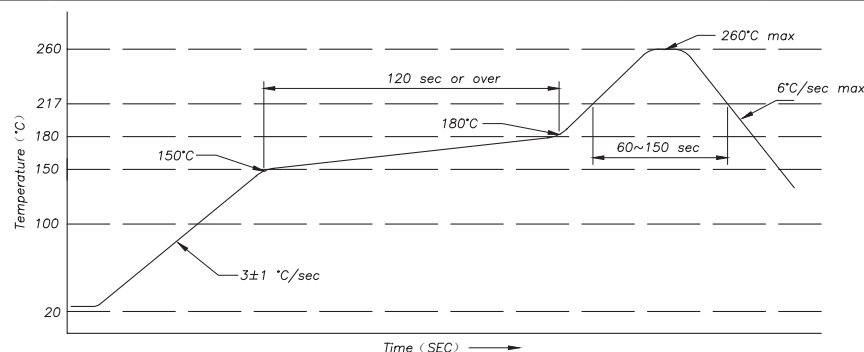
**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
USB standard	USB 3.2 Gen 1				
rated input voltage				48	Vdc
rated input current	as per EIA-364-70, Method B				
	power pins collectively [A1, A4, A9, A12, B1, B4, B9, B12]			5.0	A
	VCONN pins individually [B5]			1.25	A
	all other signal pins individually			0.25	A
contact resistance ¹	between terminals and mating plug			40	mΩ
insulation resistance	at 100 Vdc between adjacent contacts	100			MΩ
voltage withstand	between adjacent contacts for 1 minute	100			Vac
insertion force	at a rate of 30 cycles/min	5		20	N
withdrawal force	at a rate of 30 cycles/min	8		20	N
life	at a rate of 500 cycles per hour		10,000		cycles
operating temperature		-40		85	°C
flammability rating	UL94V-0				
RoHS	yes				
IP level	IPX8				

Note: 1. When measured at 20 mV / 100 mA.

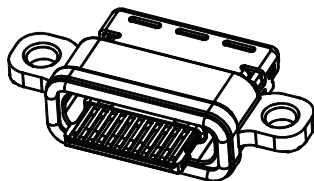
SOLDERABILITY

parameter	conditions/description	min	typ	max	units
reel storage	at 20~30°C, 40~75% humidity				
reflow soldering	see reflow profile			260	°C

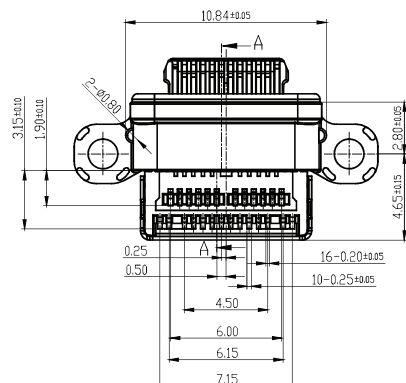
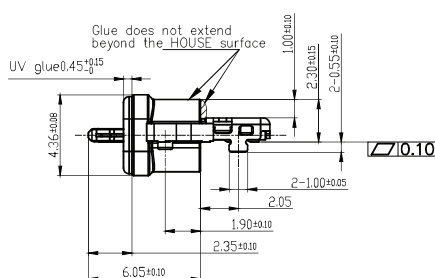
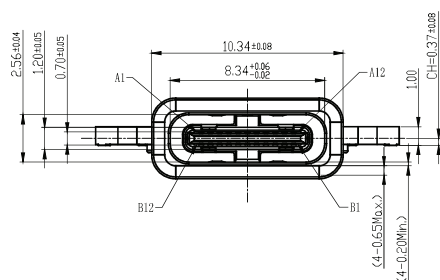
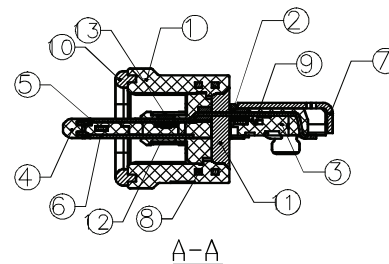
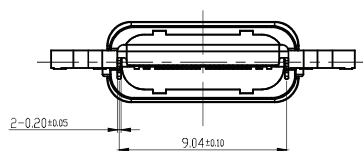
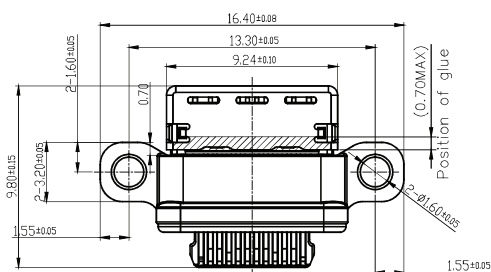


MECHANICAL DRAWING

units: mm
tolerance:
X.X ± 0.30 mm
X.XX ± 0.20 mm
X.XXX ± 0.10 mm
unless otherwise specified



ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	HSG IM shell	PA10T [UL94V-0]	black
2	first mold	PA46 [UL94V-0]	black
3	second mold	PA46 [UL94V-0]	black
4	third mold	PA46 [UL94V-0]	black
5/6	contact	C18400 t=0.12 mm	contact area: 0.76 μ m gold over 1.25 μ m nickel solder area: 0.76 μ m gold over 1.25 μ m nickel
7	sub shell	SUS316L t=0.20	1.25 μ m nickel
8	IM shell	SUS304-H t=0.20	clean
9	ground plate	SUS304-H t=0.15	solder area: 1.25 μ m nickel
10	o-ring	UV glue	
11	glue	epoxy	black
12	EMI terminal 1	SUS304-1/2H t=0.10	clean
13	EMI terminal 2	SUS304-1/2H t=0.10	clean



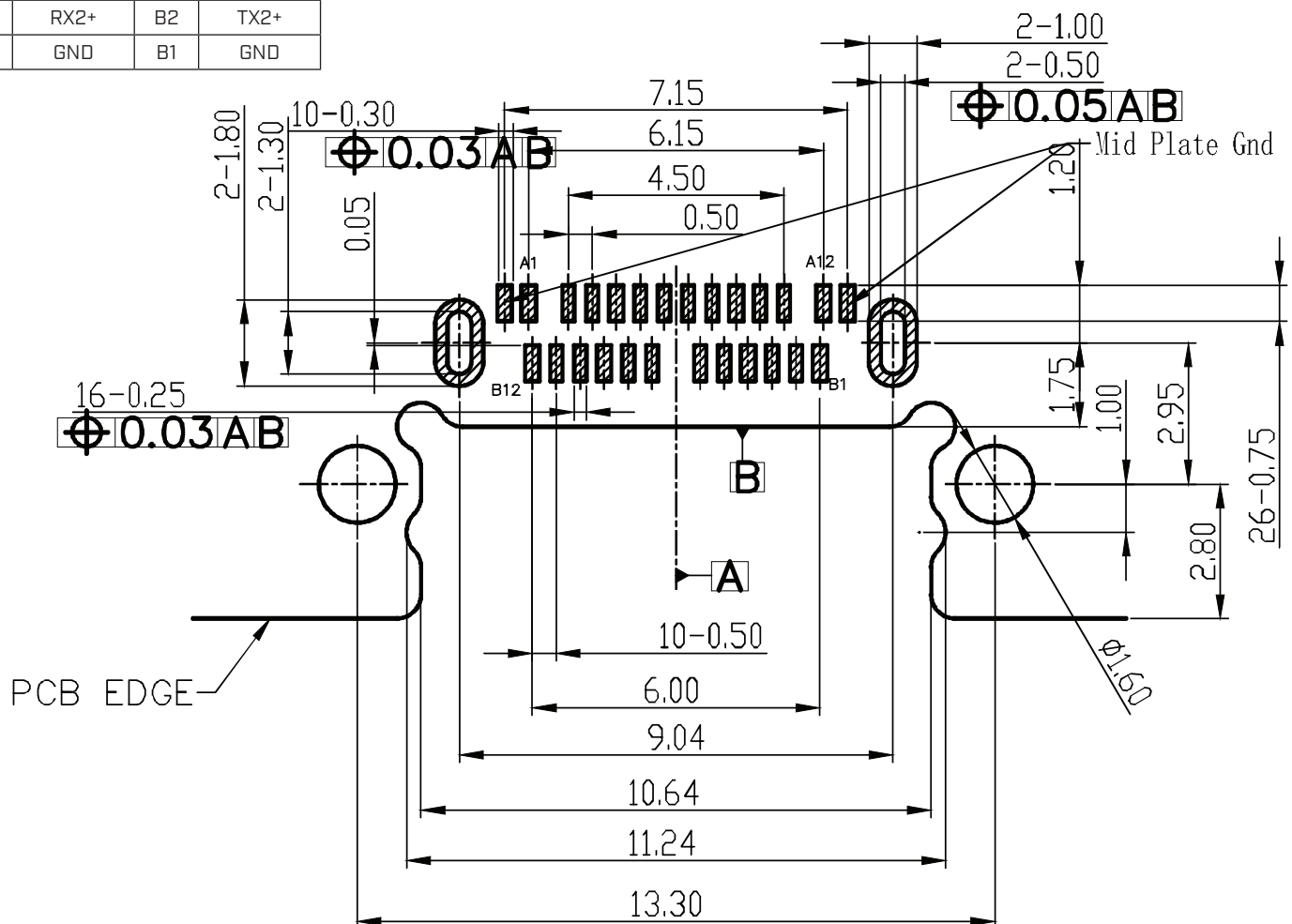
MECHANICAL DRAWING (CONTINUED)

units: mm

PCB tolerance: ± 0.05 mm

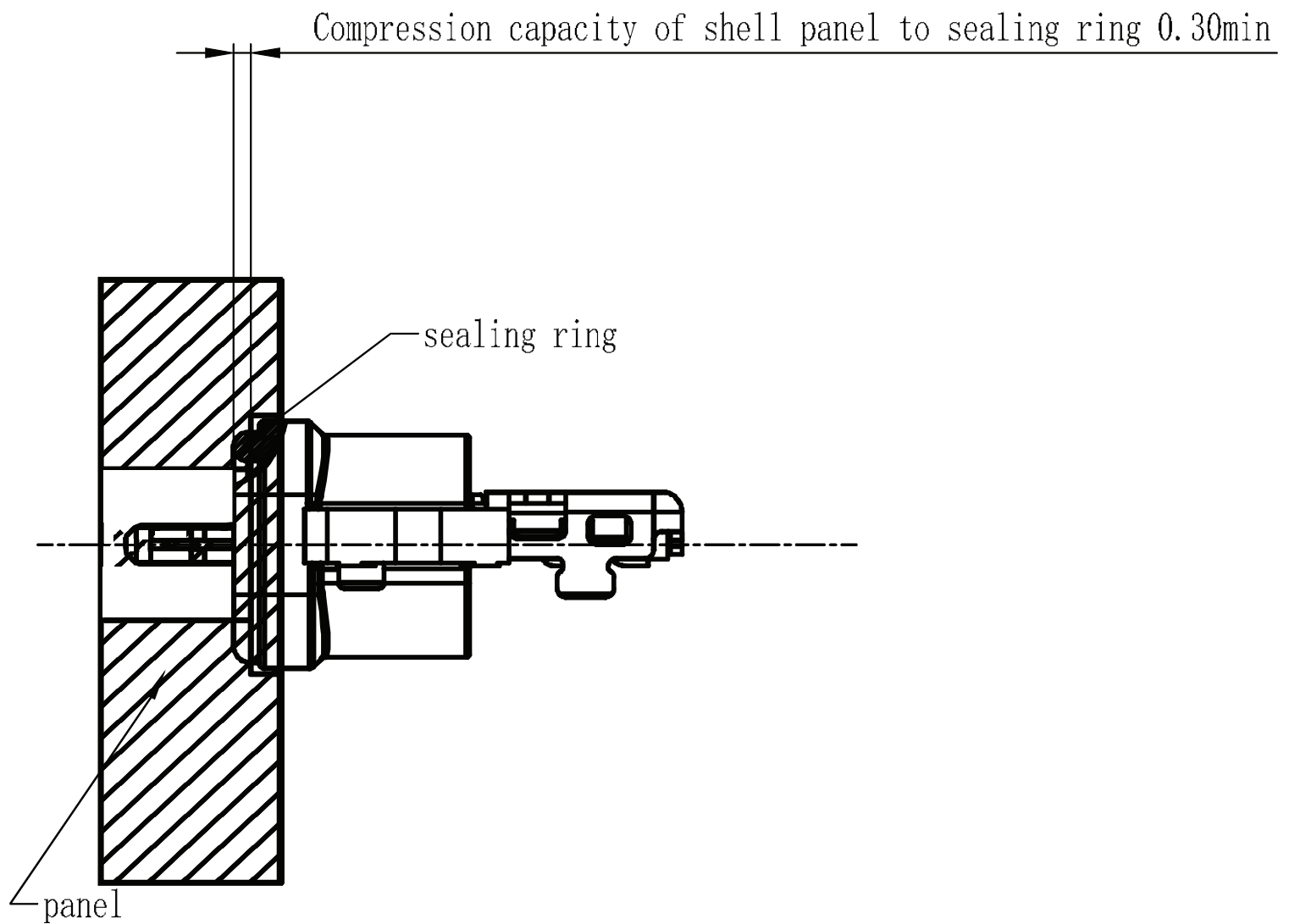
PCB thickness: 0.70 mm

PIN CONNECTIONS			
PIN	SIGNAL NAME	PIN	SIGNAL NAME
A1	GND	B12	GND
A2	TX1+	B11	RX1+
A3	TX1-	B10	RX1-
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	D+	B7	D-
A7	D-	B6	D+
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A10	RX2-	B3	TX2-
A11	RX2+	B2	TX2+
A12	GND	B1	GND



Recommended PCB Layout Top View

ASSEMBLY REFERENCE



PACKAGING

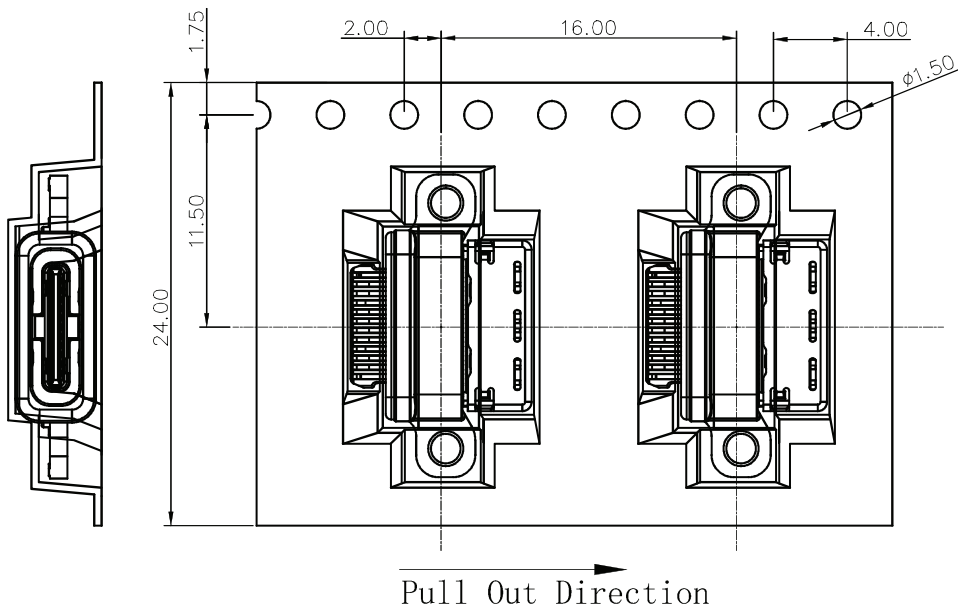
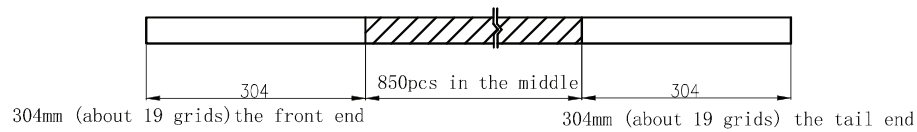
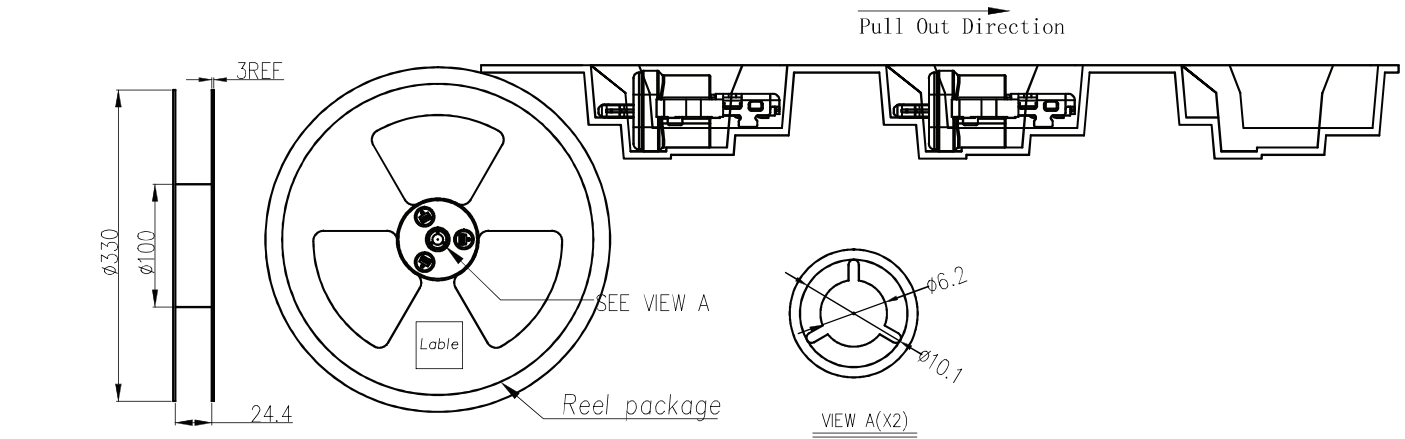
units: mm

Reel Size: Ø330

Reel QTY: 850 pcs per reel

Carton Size: 350 x 350 x 325 mm

Carton QTY: 8,500 pcs



REVISION HISTORY

rev.	description	date
1.0	initial release	08/01/2024

The revision history provided is for informational purposes only and is believed to be accurate.



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