



REV:	ECN. NO.	NAME	DATE
A0	-----	-----	06-05-2026

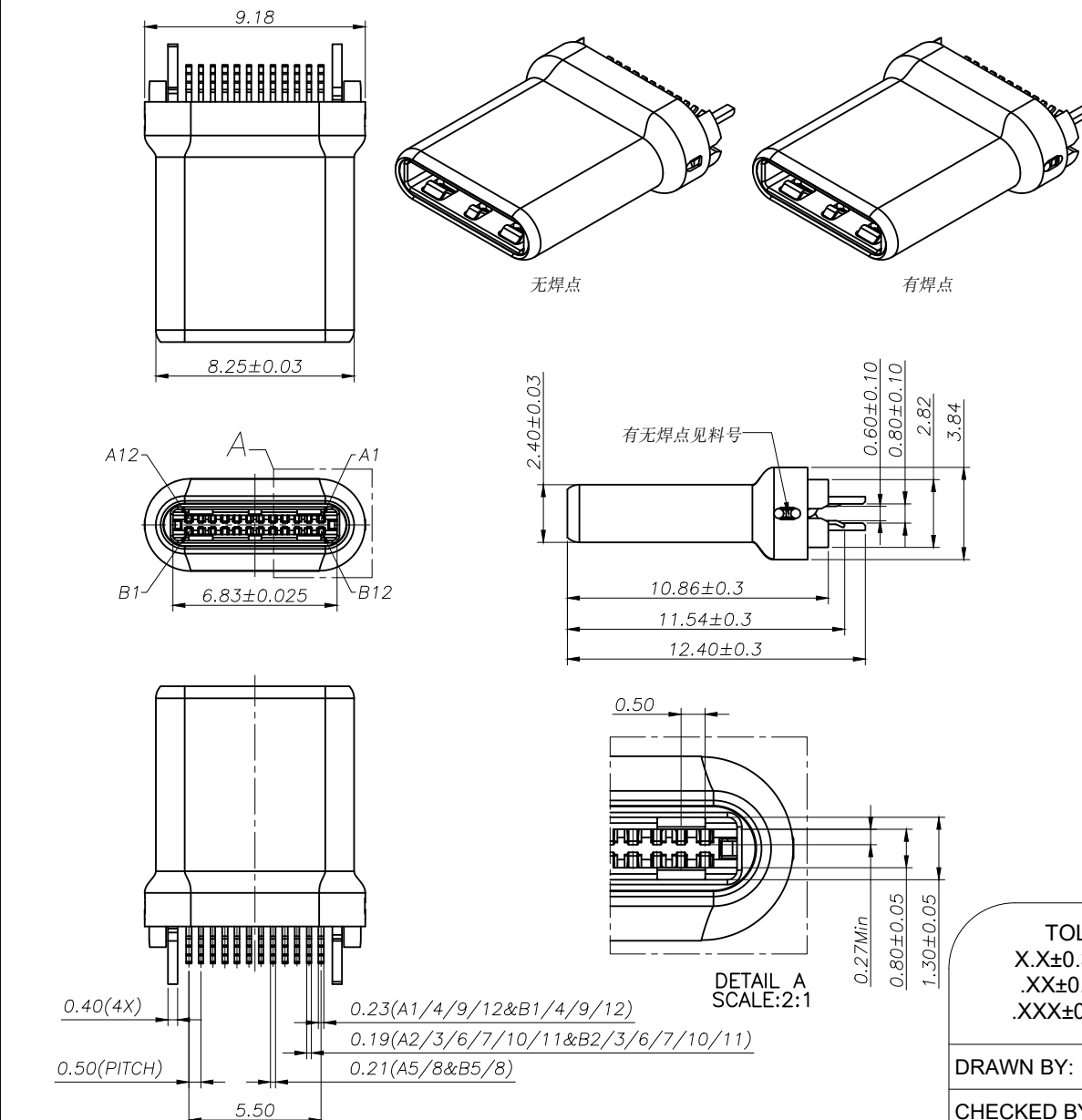
- NOTE:
- 1.MATERIAL SPECIFICATION:
 - 1.HOUSING:PA9T,UL94 V-0.
 - 2.CONTACTS:COPPER ALLOY(SEE P/N)
 - 3.LATCH: STAINLESS STEEL(SUS301)
 - 4.FRONT SHELL: STAINLESS STEEL(SUS316)
 - 5.EMI SPRING: STAINLESS STEEL(SUS301)
 - 2.PLATING SPECIFICATION:
 - 2-1.CONTACTS:
Ni 50u" MIN. UNDER PLATED OVER ALL.
Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
(GOLD PLATING THICKNESS FOLLOW THE P/N)
PLATING SPECIFICATIONS OF THE SOLDER AREA FOLLOW THE P/N
 - 2-2.FRONT SHELL&LATCH:
Ni 30u" MIN. UNDER PLATED OVER ALL.
 - 2-3.EMI SPRING:
CLEAR ONLY
 - 3.MECHANICAL PERFORMANCE,
 - 3-1.INSERTION FORCE: 0.5~2.0kgf.
 - 3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.
 - 3-3.DURABILITY: 10000 CYCLES.
 - 4.ELECTRICAL PERFORMANCE,
 - 4-1. CURRENT RATING:5.0A
VOLTAGE RATING:5.0V
 - 4-2. LLCR:
VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX.
SHIELD: 50mΩ/MAX.
LLCR MAX. CHANGE OF ALL PINS: 10mΩ.
 - 4-3.INSULATION RESISTANCE: 100MΩ MIN
 - 4-4.DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.
 5. ENVIRONMENTAL PERFORMANCE:
OPERATING TEMPERATURE: -25°C~+85°C.
 - 6.MANUAL SOLDERING
TERMINAL WELDING AREA TEMPERATURE:350 ± 10 ℃,
IMMERSION DURATION : 3.5 ± 0.5 SEC



FOR YOUR
VITAL CONNECTION

TITLE: USB C PLUG 24PIN SPLINT TYPE

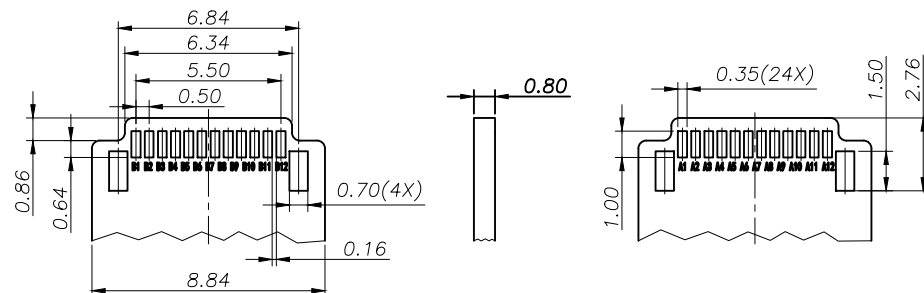
DRAWN BY:	Zou Long	PART NO:	UC31-1E1L1R003-0HT-15	SHEET:	1 OF 3	REV:	A0
CHECKED BY:	Bob	DWG NO:	VTC-TZ-00178	SIZE:	A4	UNIT:	mm
APPROVED BY:	QPF	PROJECTION:			http://www.vitalconn.com		



For technical support, please send an email to support@vitalconn.com



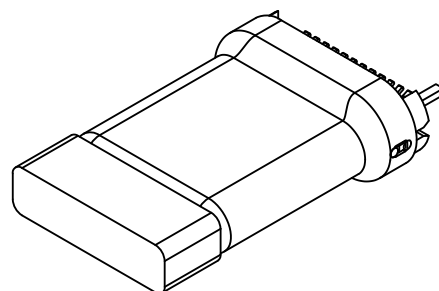
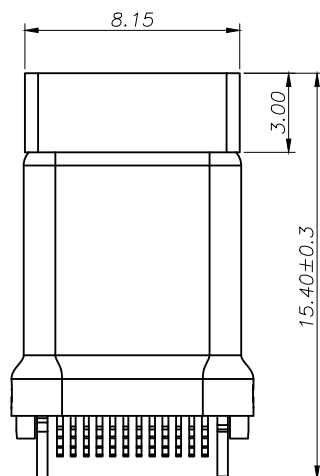
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RECOMMENDED PCB LAYOUT
DEFAULT TOLERANCE:±0.05

USB TYPE-C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	Vbus	B9	Vbus
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	Vbus	B4	Vbus
A10	SSRXn2	B3	SSTXn2
A11	SSRXp2	B2	SSTXp2
A12	GND	B1	GND



WITH COVER

P/N: UC31-1EXL1X0XX-XHT-15

0: 无焊点
1: 有焊点

HOUSING MATERIAL
E: PA9T

HOUSING COLOR
1: BLACK

SHELL MATERIAL
L:SUS316L

SHELL PLATING
1: Ni

CONTACT FUNCTIONAL AREA PLATED

01: Au 1u"
03: Au 3u"
15: Au 15u"
30: Au 30u"

CONTACT SOLDER AREA PLATED

0: Sn

CONTACT MATERIAL

K: C7025

R: C7035

TOLERANCE
X.X±0.30 X.°±10°
.XX±0.20 .X° ±8°
.XXX±0.10 .XX°±5°

VITALCON
a vital connector company

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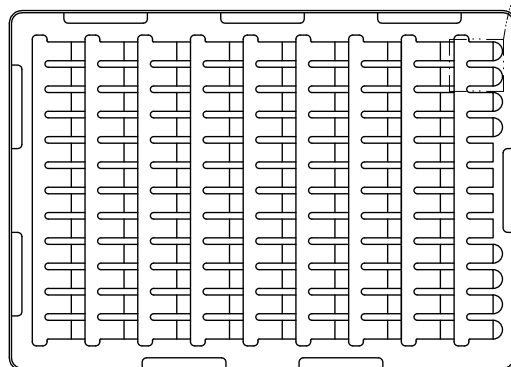
TITLE: USB C PLUG 24PIN SPLINT TYPE

DRAWN BY:	Zou Long	PART NO:	UC31-1E1L1R003-0HT-15	SHEET:	2 OF 3	REV:	A0
CHECKED BY:	Bob	DWG NO:	VTC-TZ-00178	SIZE:	A4	UNIT:	mm
APPROVED BY:	QPF	PROJECTION:		http://www.vitalconn.com			

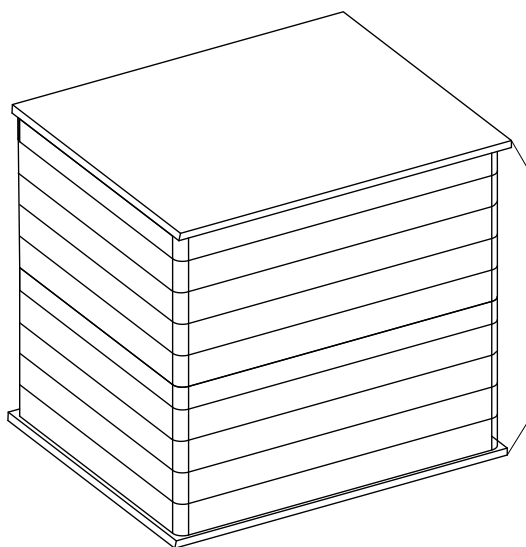
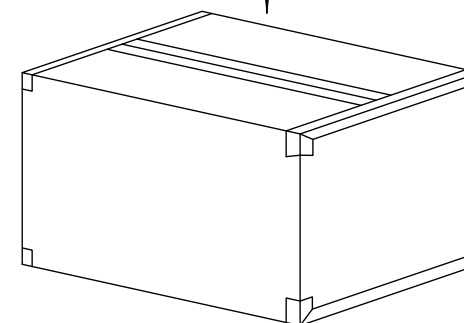
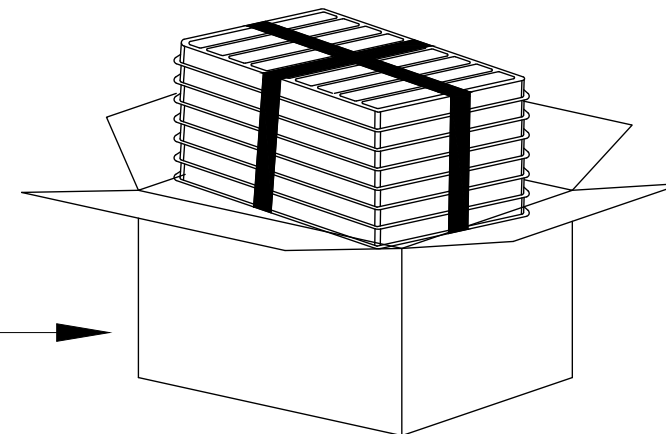
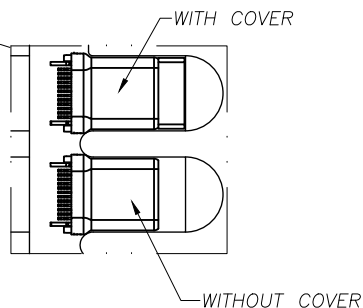
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EARCH TRAY PACKING 108 PCS



40LAYERS

40 LAYERS PRODUCTS FOR A BUNDLE

	TRAY	CARTON
CONNECTOR (PCS)	108	8640

TOLERANCE	
X.X±0.30	X.°±10°
.XX±0.20	.X° ±8°
.XXX±0.10	.XX°±5°



FOR YOUR
VITAL CONNECTION

TITLE:		USB C PLUG 24PIN SPLINT TYPE				
DRAWN BY:	Zou Long	PART NO:	UC31-1E1L1R003-0HT-15	SHEET:	3 OF 3	REV: A0
CHECKED BY:	Bob	DWG NO:	VTC-TZ-00178	SIZE: A4	UNIT:mm	FCN: F9
APPROVED BY:	QPF	PROJECTION:		http://www.vitalconn.com		

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