



REV:	ECN. NO.	NAME	DATE

NOTE:

1.MATERIAL SPECIFICATION:

- 1.HOUSING:LCP,UL94 V-0.
- 2.TERMINAL: COPPER ALLOY(C1815)
- 3.MID PLATE: STAINLESS STEEL(SUS301)
- 4.FRONT SHELL: STAINLESS STEEL(SUS304)

2.PLATING SPECIFICATION:

- 2-1.TERMINAL:
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:

- Ni 50u" MIN. UNDER PLATED OVER ALL.

2-3.MID PLATE:

- 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. VOLTAGE RATING:5 V DC/AC (RMS. max)
CURRENT RATING:5 AMPS. FOR TOTAL VBUS/GND PINS;
1.25AMPS FOR CC PIN,0.25 AMPS. FOR ALL OTHER CONTACT.

4-2. LLCR:

- VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX.
LLCR MAX. CHANGE OF ALL PINS: 10mΩ.

4-3.INSULATION RESISTANCE: 100MΩ MIN

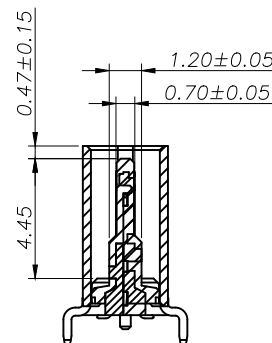
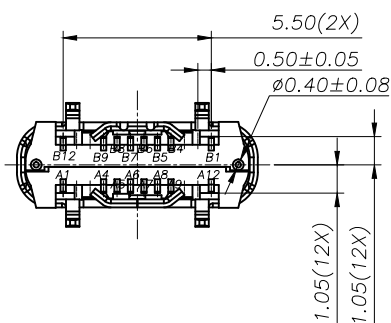
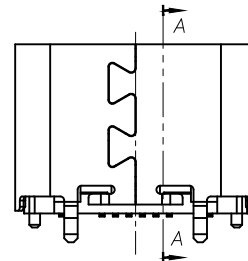
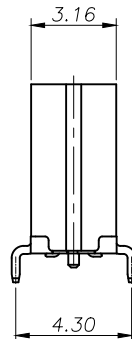
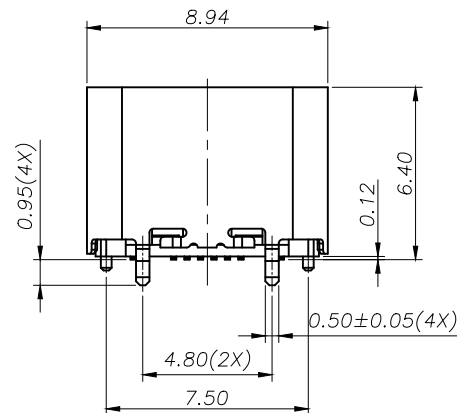
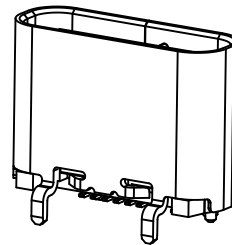
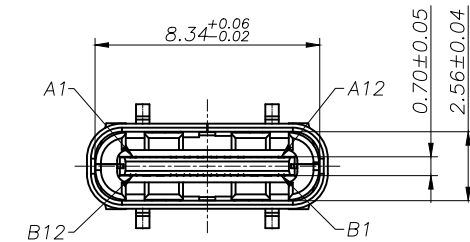
4-4.DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.

5. ENVIRONMENTAL PERFORMANCE:

- OPERATING TEMPERATURE: -25°C~+85°C.

6.IR REFLOW:

- THE PEAK TEMPERATURE ON THE BOARD SHALL
BE MAINTAINED FOR 10 SECONDS AT 260°C.



SECTION:A-A

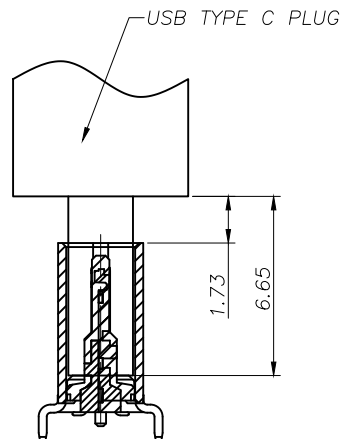
For technical support, please send an email to support@vitalconn.com

TOLERANCE		VITALCON a vital connector company		FOR YOUR VITAL CONNECTION	
X.X	±0.30	X.°	±10°		
.XX	±0.20	.X°	±8°	TITLE:	
.XXX	±0.10	.XX°	±5°	USB CF 16PIN VERTICAL W/O EMI SPRING,HIGHT 6.4	
UNITS		mm		REV: A	
DRAWN BY:	Zou Long	PART NO:	UC22-1E1H1A103-0HR-14	SHEET:1 OF 3	
CHECKED BY:	Bob	SIZE: A4	UNIT:mm	FCN: F9	
APPROVED BY:	QPF	PROJECTION		http://www.vitalconn.com	

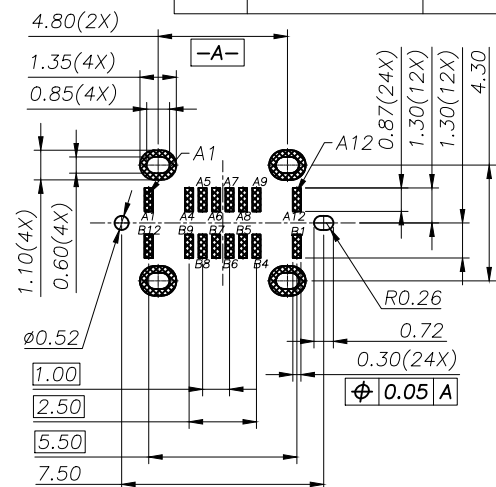


USB TYPE-C PIN ASSIGNMENTS

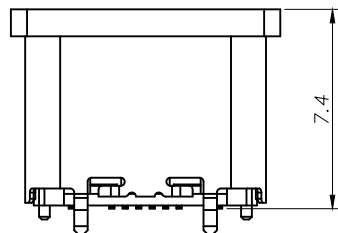
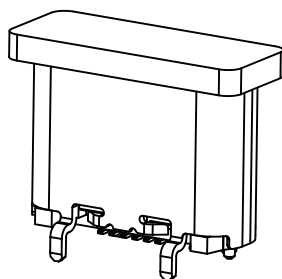
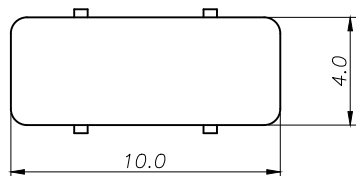
PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND



FEMALE AND MALE MATCHING DRAWING



RECOMMENDED PCB LAYOUT(TOP VIEW)
THICKNESS 0.8±0.10MM;DEFAULT TOLERANCE:±0.05



WITH COVER SCHEMATIC

ORDER INFORMATION

P/N: UC22-1A1H1A103-0HR-14

HOUSING MATERIAL

A: LCP

E: PA9T

HOUSING COLOR

1: BLACK

2: WHITE

5: NATURE

SHELL MATERIAL

H:SUS304

SHELL PLATING

1: Ni

CONTACT FUNCTIONAL AREA PLATED

03: Au 3u"

15: Au 15u"

30: Au 30u"

CONTACT SOLDER AREA PLATED

1: Au 1u"

CONTACT MATERIAL

A: C1815

TOLERANCE

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



FOR YOUR
VITAL CONNECTION

TITLE:

USB CF 16PIN VERTICAL W/O EMI
SPRING,HIGHT 6.4

DRAWN BY: Zou Long

PART NO: UC22-1E1H1A103-0HR-14

REV: A

CHECKED BY: Bob

SIZE: A4

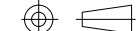
UNIT:mm

SHEET:2 OF 3

FCN: F9

APPROVED BY: QPF

PROJECTION

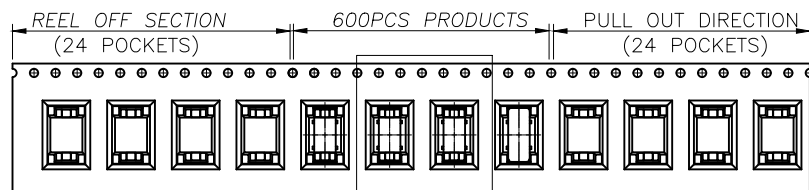


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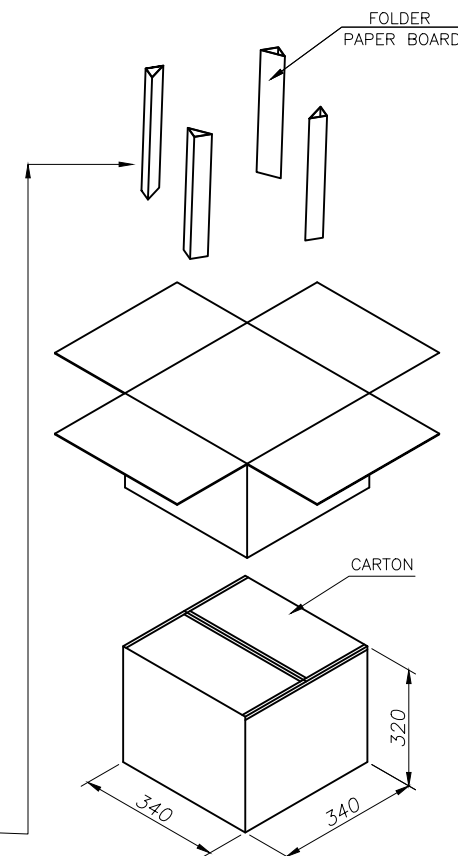
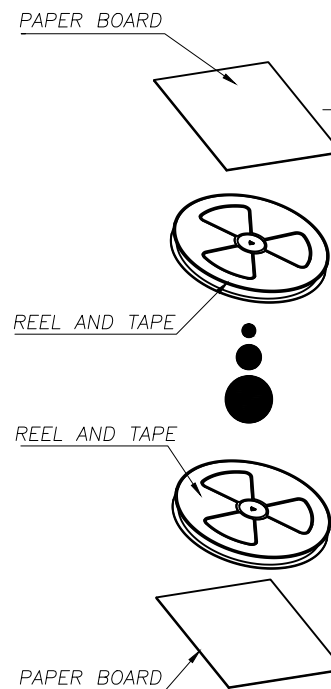
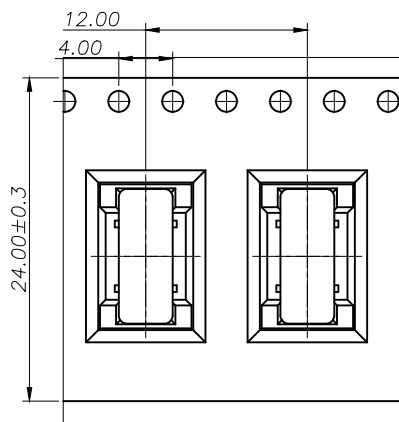
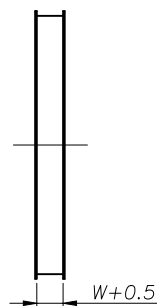
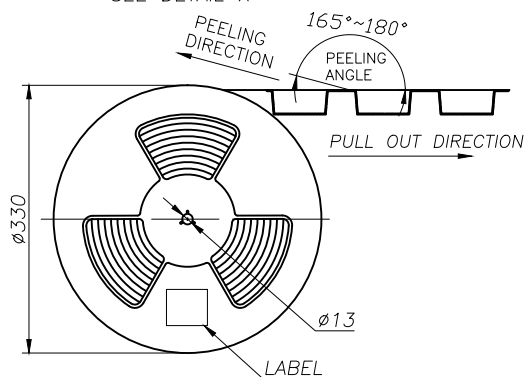
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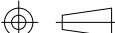
REV:	ECN. NO.	NAME	DATE



SEE DETAIL X



	REEL/TRAY	CARTON
CONNECTOR (PCS)	600	6000

TOLERANCE X.X ±0.30 X.° ±10° .XX ±0.20 .X.° ±8° .XXX ±0.10 .XX° ±5° UNITS mm		VITALCONN a vital connector company		FOR YOUR VITAL CONNECTION	
		TITLE:	USB CF 16PIN VERTICAL W/O EMI SPRING,HIGHT 6.4		
DRAWN BY:	Zou Long	PART NO:	UC22-1E1H1A103-0HR-14		REV: A
CHECKED BY:	Bob	SIZE: A4	UNIT:mm	SHEET:3 OF 3	FCN: F9
APPROVED BY:	QPF	PROJECTION			http://www.vitalconn.com

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