

REV.	ECN NO.	DESCRIPTION	DATE	DESIGN
01	ECN NO.	INITIAL RELEASED	2020.03.30	SYJ

NOTE:

1.MATERIAL SPECIFICATION:

1.HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0.

2.TERMINAL: COPPER ALLOY(C1814)

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:

PLATING SPECIFICATIONS FOLLOW THE P/N

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.

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.

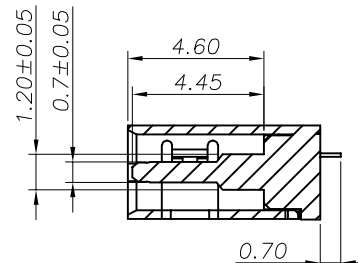
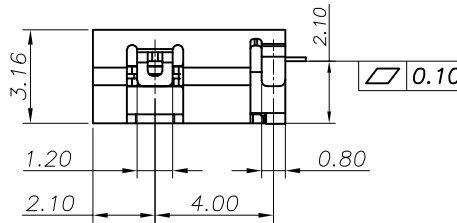
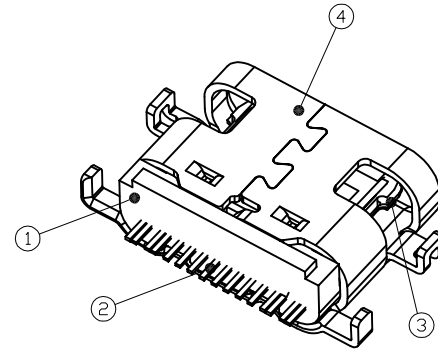
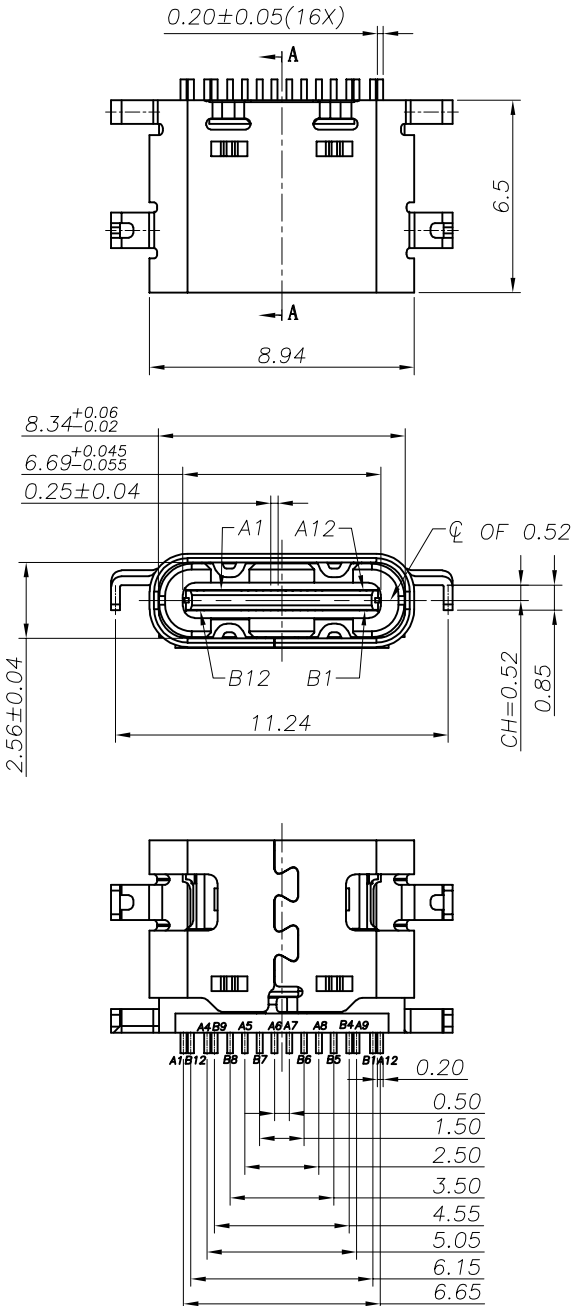
5. ENVIRONMENTAL PERFORMANCE:

OPERATING TEMPERATURE: -25°C~+85°C.

6.IR REFLOW:

THE PEAK TEMPERATURE ON THE BOARD SHALL

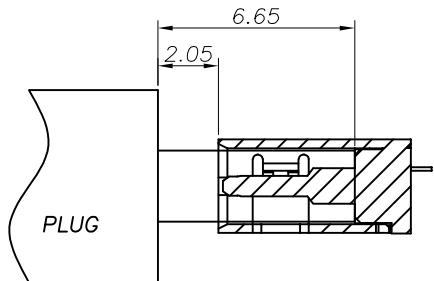
BE MAINTAINED FOR 10 SECONDS AT 260°C.



SECTION:A-A

TOLERANCE		NAME(INTENDED USE) CUSTOMER DRAWING	 东莞市溪榜电子有限公司 DONG GUAN XI BANG ELECTRONICS CO., LTD.		
X.X ±0.30	X.* ±10*	PART NO.	TITLE: USB CF 16PIN (L=6.5) MID MOUNT 2.1MM		
.XX ±0.20	.X* ± 8*	SEE P/N:			
.XXX ±0.10	.XX* ± 5*	DESIGN: SYJ	DRAWG NO.		
UNITS	mm		XB-ACF002-4R		
MATERILA		CHED:			
FINISH		APPD:			
				SCALE	SHEET
				1:1	1/3
					REV.
					01

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AFTER MATING

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

ORDER INFORMATION

P/N: ACF002-4XXHXXXX-0HR

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

01: Au 1u"

03: Au 3u"

15: Au 15u"

30: Au 30u"

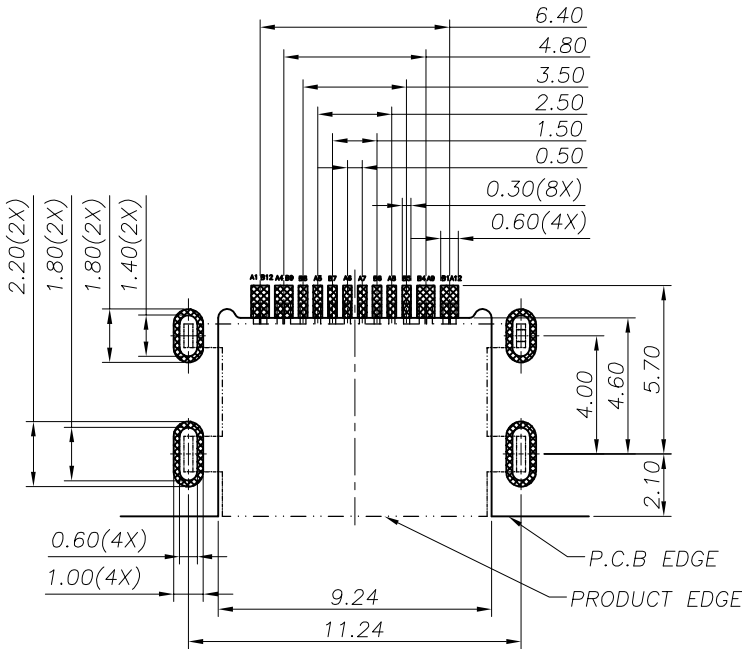
CONTACT SOLDER AREA PLATED

0: Sn

1: Au 1u"

CONTACT MATERIAL

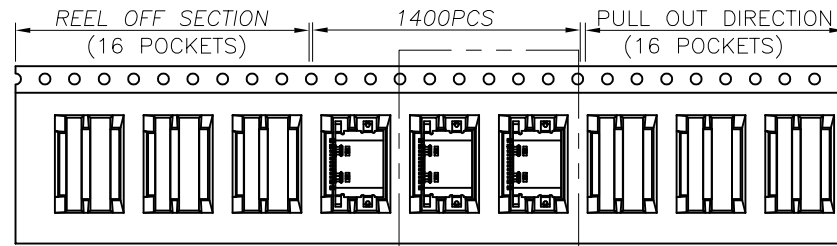
A: C1814



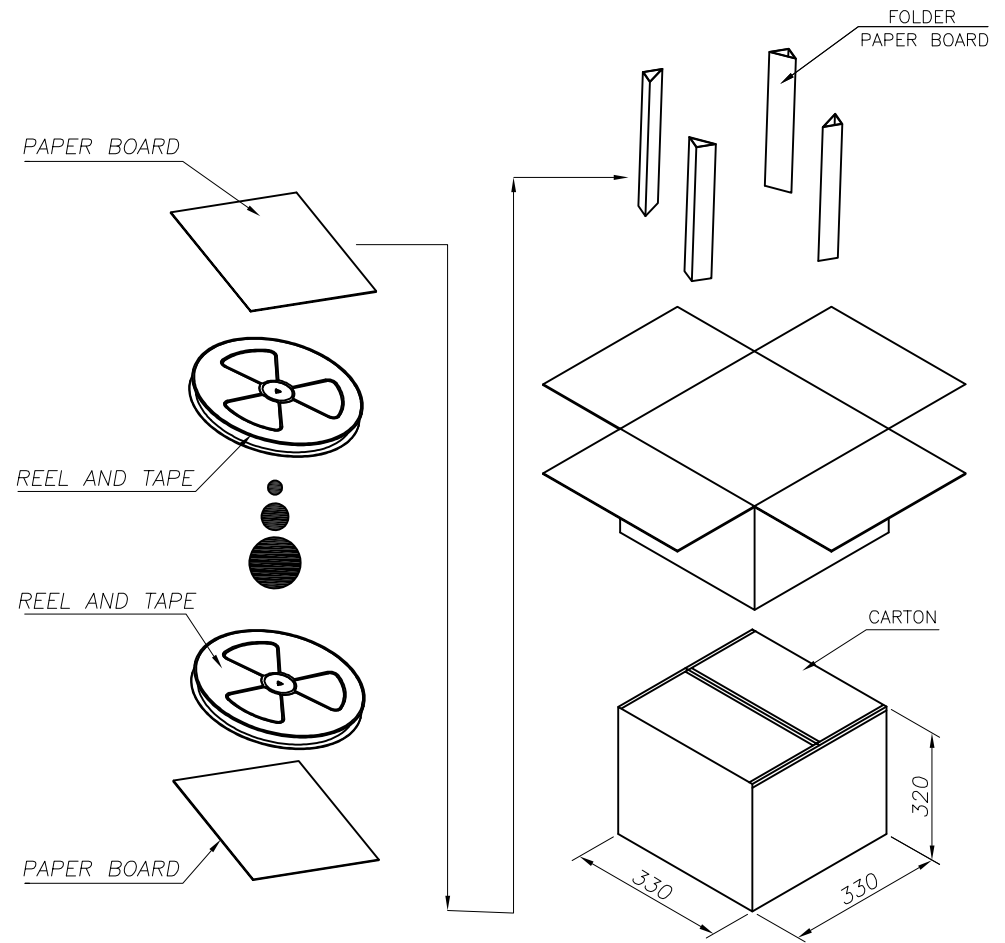
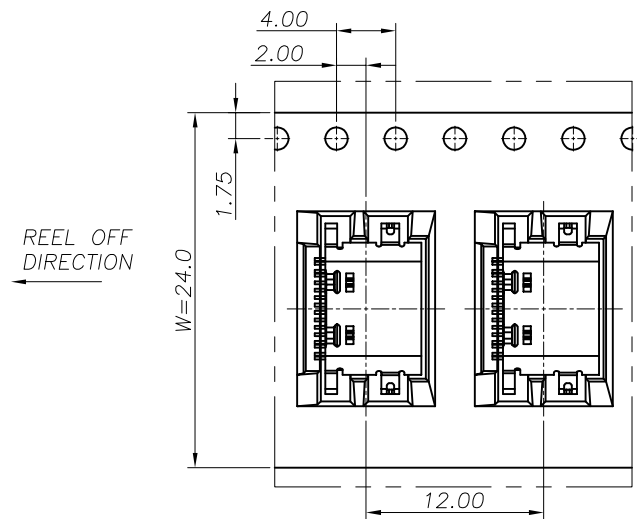
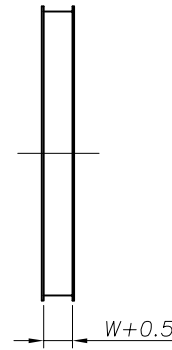
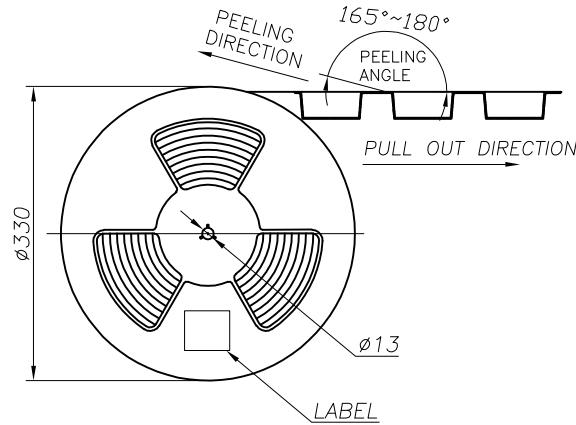
RECOMMENDED PCB LAYOUT(TOP VIEW)
THICKNESS 0.80MM;DEFAULT TOLERANCE:±0.05

TOLERANCE		NAME(INTENDED USE) CUSTOMER DRAWING	XHB 东莞市溪榜电子有限公司 DONG GUAN XI BANG ELECTRONIC CS CO., LTD.		
X.X ±0.30	X.* ±10°	PART NO.	TITLE: USB CF 16PIN (L=6.5) MID MOUNT 2.1MM		
.XX ±0.20	.X* ± 8°	SEE P/N:			
.XXX ±0.10	.XX* ± 5°	DESIGN: SYJ	DRAWG NO. XB-ACF002-4R		
UNITS	mm	CHED:			
MATERILA		APPD:			
FINISH					

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SEE DETAIL X



			REEL	CARTON	
		CONNECTOR (PCS)	1400	14000	
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X.X ±0.30	X.* ±10°	PART NO.	TITLE: USB CF 16PIN (L=6.5)		
.XX ±0.20	.X* ± 8°	SEE P/N:	MID MOUNT 2.1MM		
.XXX ±0.10	.XX* ± 5°				
UNITS	mm	DESIGN: SYJ	DRAWG NO. XB-ACF002-4R		
MATERILA		CHED:			
FINISH		APPD:	 SCALE 1:1	 SHEET 3/3	 REV. 01