

REV.	ECN NO.	DESCRIPTION	DATE	DESIGN
B	ECN NO.	UPDATE THE DRAWING	2020.12.11	Neo.Liu
C	ECN NO.	UPDATE THE PIN DEFINITION	2021.02.02	Neo.Liu

NOTE:

1.MATERIAL SPECIFICATION:

- 1.HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0.
- 2.CONTACTS: COPPER ALLOY
- 3.MID PLATE: STAINLESS STEEL
- 4.FRONT SHELL: STAINLESS STEEL
- 5.EMI PLATE: STAINLESS STEEL
- 6.TOP SHELL: STAINLESS STEEL

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&TOP SHELL:

Ni 30u" MIN. UNDER PLATED OVER ALL.

2-3.EMI PLATE:

CLEAR ONLY

2-4.MIDDLE PLATE

Ni 40u" MIN. UNDER PLATED OVER ALL.

TIN 80u" Min PLATED ON SOLDER AREA.

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.

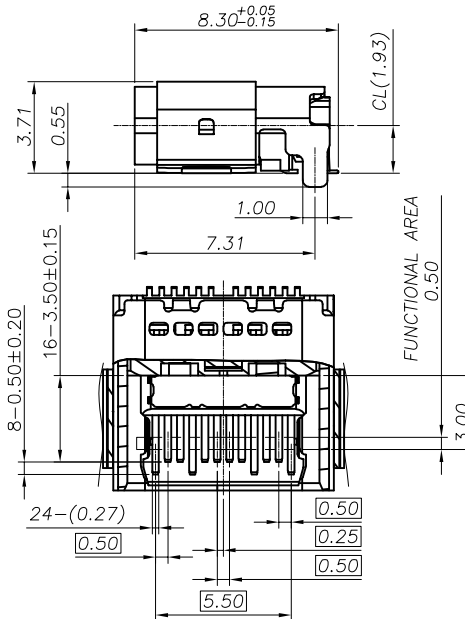
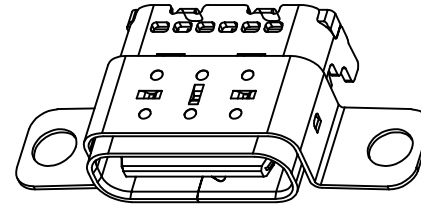
THE PEAK TEMPERATURE ON THE BOARD SHALL

6.IR REFLOW:

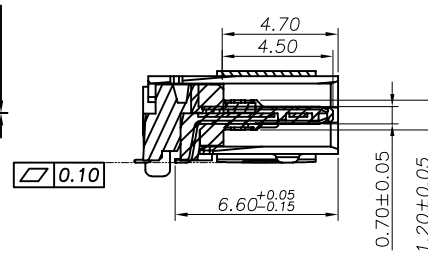
BE MAINTAINED FOR 10 SECONDS AT 260°C.

7.COPLANARITY OF SMT PINS SOLDER TAIL IS 0.10 MAX.BEFORE

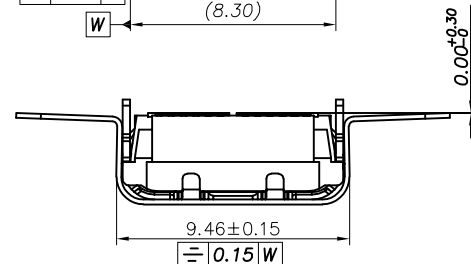
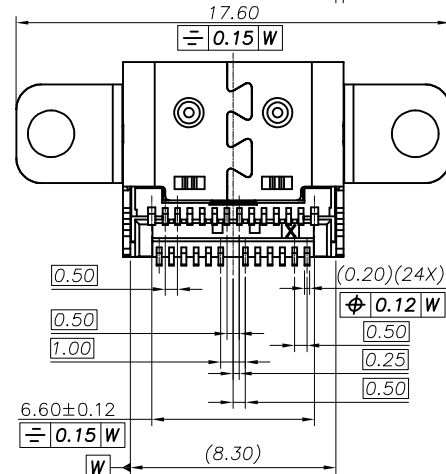
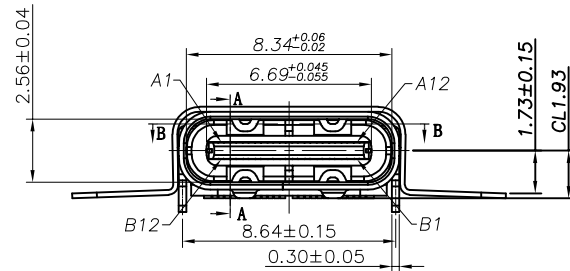
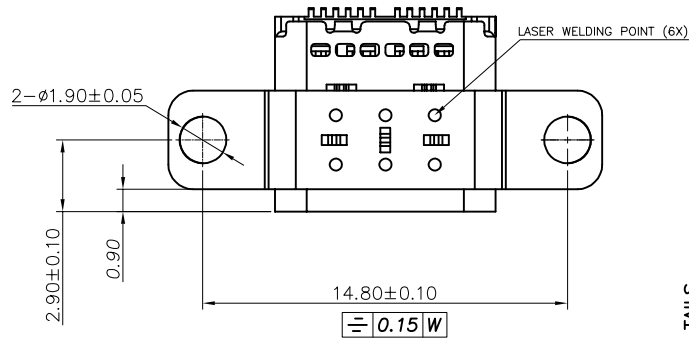
REFLOW AND AFTER REFLOW



SECTION B-B
SCALE 1:1



SECTION A-A
SCALE 1:1

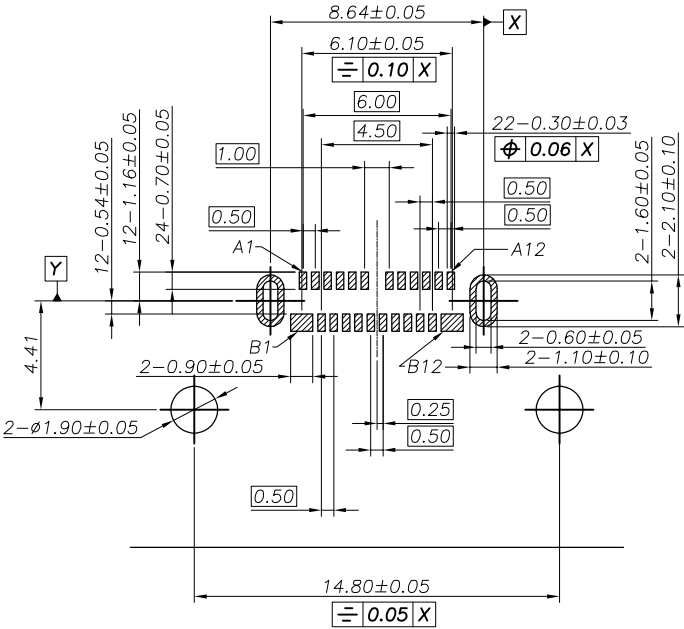


TOLERANCE		NAME(INTENDED USE) CUSTOMER DRAWING	东莞市溪榜电子有限公司 DONG GUAN XI BANG ELECTRONICS CO., LTD.		
X.X ±0.30	X.* ±10°	PART NO.	TITLE: USB CF DOUBLE SMT WITH SCREW HOLE		
.XX ±0.20	.X.* ± 8°	SEE P/N DESCRIPTION	DRAWG NO. XB-ACF009-2R		
.XXX ±0.10	.XX.* ± 5°	DESIGN: Neo.Liu	SCALE 1:1		
UNITS	mm	CHED:	SHEET 1/3		
MATERILA		APPD:	REV. C		
FINISH					

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USB TYPE-C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A2	TX1+	B11	RX1+
A3	TX1-	B10	RX1-
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	RX2-	B3	TX2-
A11	RX2+	B2	TX2+
A12	GND	B1	GND



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

PART NUMBER DESCRIPTION

P/N: ACF009-2A1H1A1**-0HR	
HOUSING MATERIAL	CONTACT FUNCTIONAL AREA PLATED
A: LCP	03: Au 3u"
E: PA10T	15: Au 15u"
HOUSING COLOR	30: Au 30u"
1: BLACK	CONTACT SOLDER AREA PLATED
SHELL PLATING	1: Au 1u"
1: Ni	
CONTACT MATERIAL	
A: C1814	

TOLERANCE		NAME(INTENDED USE) CUSTOMER DRAWING	XB 东莞市溪榜电子有限公司 DONG GUAN XI BANG ELECTRONI CS CO., LTD.		
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.XXX ±0.10	.XX* ± 5°	DESIGN: Neo.Liu	DRAWG NO.		
UNITS	mm		XB-ACF009-2R		
MATERILA		CHED:			
FINISH		APPD:			
			SCALE	SHEET	REV.
			1:1	2/3	C

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. SEE P/N DESCRIPTION		TITLE: USB CF DOUBLE SMT WITH SCREW HOLE			
.XX ±0.20	.X* ± 8'						
.XXX ±0.10	.XX* ± 5'						
UNITS	mm	DESIGN: Neo.Liu		DRAWG NO. XB-ACF009-2R			
MATERILA		CHED:					
FINISH		APPD:			SCALE 1:1	SHEET 3/3	REV. C