

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

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:
Ni 30u" MIN. UNDER PLATED OVER ALL.

2-3. MID PLATE:
Ni 30u" MIN. UNDER PLATED OVER ALL.
Sn 80u" MIN. PLATED OVER ALL

2-4. EMI 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.

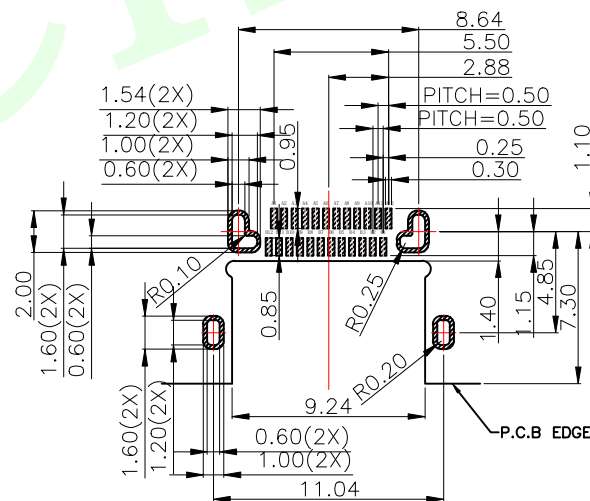
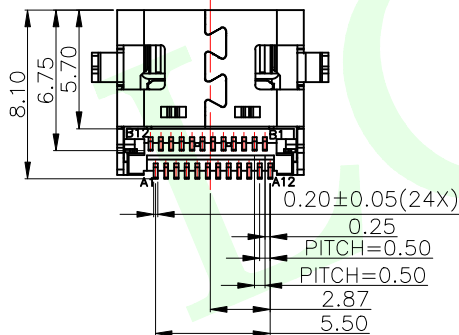
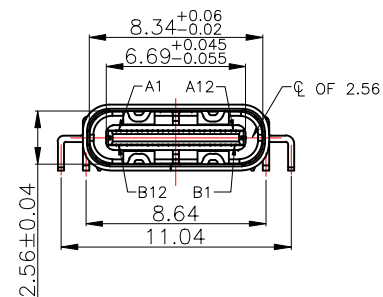
4. ELECTRICAL PERFORMANCE,
4-1. CURRENT RATING: 5.0A
VOLTAGE RATING: 5.0V

4-2. LLCR:
VBUS & GND PINS AND OTHER PINS: 40mA/PIN MAX.
LLCR MAX. CHANGE OF ALL PINS: 10mA.

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.



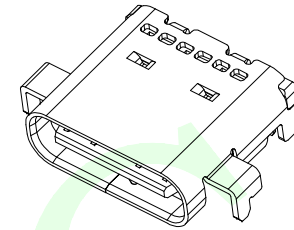
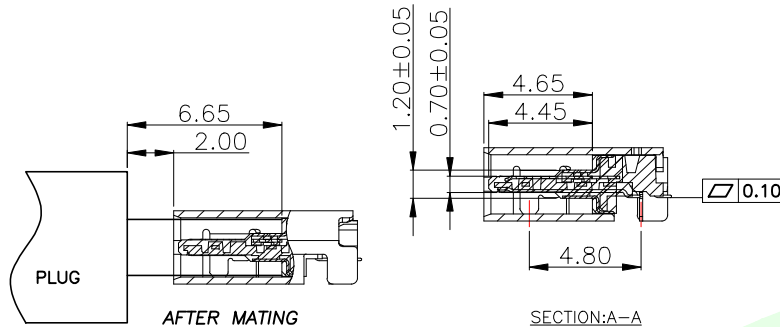
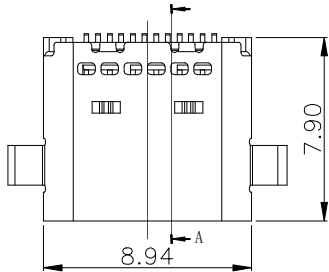
LCK-TCF 913 - CXXX W L- G3
 联晟欣 LCK
 产品类别
 TCF:TYPE C母头
 TCM:TYPE C公头
 产品流水料号识别码
 沉板深度
 C08:0.8
 C10:1.0
 电镀规格
 G1: 1U
 G3: 3U
 (以此类推)
 包装方式
 L: 圆盘
 B: 吸塑盒
 T: 管装
 有柱无柱
 Y: 有柱
 W: 无柱

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A2	Txp1	B11	Rxp1
A3	Txn1	B10	Rxn1
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	Rxn2	B3	Txn2
A11	Rxp2	B2	Txp2
A12	GND	B1	GND

RECOMMENDED PCB LAYOUT(TOP VIEW)
THICKNESS 0.60MM;DEFAULT TOLERANCE:±0.05

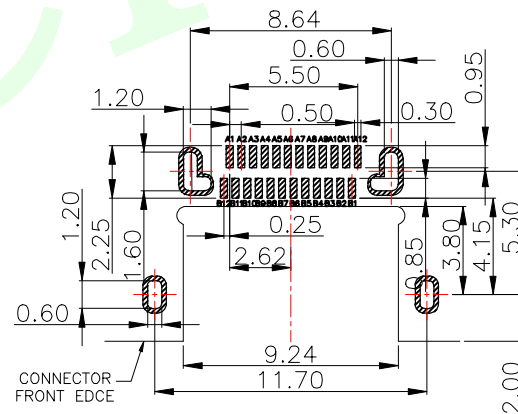
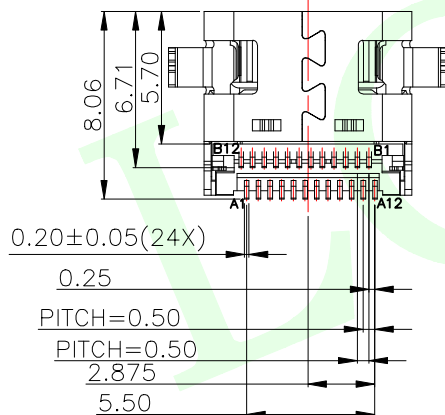
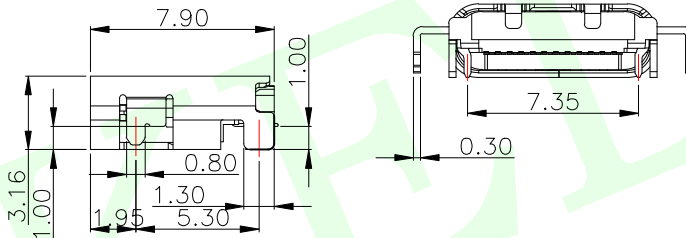
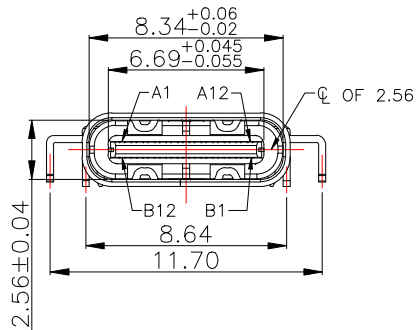
QUADRANT POINT		 联晟欣连接器（深圳）有限公司 Lianshengxin Connector (Shenzhen) Co., Ltd																											
TANGENCY POINT																													
INTERSECTION POINT																													
UNLESS OTHERWISE SPECIFIED, TOLERANCE: X. ±0.25 X.x ±0.20 X.xx ±0.15 ANGULAR ±3°		<table><tr><td>DESIGN</td><td>Andy</td><td>DATE</td><td>2014.12.24</td><td rowspan="3">TITLE: USB C F TYPE C 24PIN MID—MOUNT 0.8mm</td></tr><tr><td>CHECKED</td><td></td><td>DATE</td><td></td></tr><tr><td>APPROVED</td><td></td><td>DATE</td><td></td></tr><tr><td colspan="4">PART NO: LCK-TCF913-CXXWL-G3</td><td>REV: 04</td><td>SCALE: 1:1</td><td>UNIT: mm</td></tr><tr><td colspan="4">DRAWING NO: 102022210</td><td>SIZE: A4</td><td>SHEET: 1/1</td><td></td></tr></table>	DESIGN	Andy	DATE	2014.12.24	TITLE: USB C F TYPE C 24PIN MID—MOUNT 0.8mm	CHECKED		DATE		APPROVED		DATE		PART NO: LCK-TCF913-CXXWL-G3				REV: 04	SCALE: 1:1	UNIT: mm	DRAWING NO: 102022210				SIZE: A4	SHEET: 1/1	 
DESIGN	Andy	DATE	2014.12.24	TITLE: USB C F TYPE C 24PIN MID—MOUNT 0.8mm																									
CHECKED		DATE																											
APPROVED		DATE																											
PART NO: LCK-TCF913-CXXWL-G3				REV: 04	SCALE: 1:1	UNIT: mm																							
DRAWING NO: 102022210				SIZE: A4	SHEET: 1/1	 																							

RoHS Compliant



NOTE:

- MATERIAL SPECIFICATION:
 - HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0.
 - CONTACTS: COPPER ALLOY
 - MID PLATE: STAINLESS STEEL
 - FRONT SHELL: STAINLESS STEEL
 - EMI PLATE: STAINLESS STEEL
- PLATING SPECIFICATION:
 - 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
 - FRONT SHELL:
Ni 30u" MIN. UNDER PLATED OVER ALL.
 - MID PLATE:
Ni 30u" MIN. UNDER PLATED OVER ALL.
Sn 80u"MIN. PLATED OVER ALL
 - EMI PLATE:
CLEAR ONLY
- MECHANICAL PERFORMANCE,
 - INSERTION FORCE: 0.5~2.0kgf.
 - REMOVAL FORCE: 0.8kgf~2.0kgf.
 - DURABILITY: 10000 CYCLES.
- ELECTRICAL PERFORMANCE,
 - CURRENT RATING:5.0A
VOLTAGE RATING:5.0V
 - LLCR:
VBUS & GND PINS AND OTHER PINS: 40mA/PIN MAX.
LLCR MAX. CHANGE OF ALL PINS: 10mA.
 - INSULATION RESISTANCE: 100MΩ MIN
 - DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.
- ENVIRONMENTAL PERFORMANCE:
OPERATING TEMPERATURE: -25°C~+85°C.
- IR REFLOW:
THE PEAK TEMPERATURE ON THE BOARD SHALL
BE MAINTAINED FOR 10 SECONDS AT 260°C.



THICKNESS 0.60MM:DEFAULT TOLERANCE:±0.05

USB TYPE-C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A2	TXp1	B11	RXp1
A3	TXn1	B10	RXn1
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	RXn2	B3	TXn2
A11	RXp2	B2	TXp2
A12	GND	B1	GND

QUADRANT POINT	QP	联晟欣连接器(深圳)有限公司			
TANGENCY POINT	TP	Lianshengxin Connector (Shenzhen) Co., Ltd			
INTERSECTION POINT	IP				
UNLESS OTHERWISE SPECIFIED,TOLERANCE:		DESIGN	Andy	DATE	2014.12.24
X.	±0.25	CHECKED		DATE	
X.x	±0.20	APPROVED		DATE	
X.xx	±0.15	PART NO:	LCK-TCF913-CXXWL-G3	REV:	04
ANGULAR	±3°	DRAWING NO:	102022210	SCALE:	1:1
				UNIT:	mm
				SIZE:	A4
				SHEET:	1/1