

RoHS Compliant

Technical drawing of the USB Type-C connector showing top, side, and front views with dimensions.

Top View Dimensions:

- Overall Width: 9.64
- Overall Height: 9.87
- Pin Pitch: 0.20 ± 0.05
- Pin Length: 0.80
- Pin Spacing: 1.60
- Pin Diameter: 0.125

Side View Dimensions:

- Overall Height: 3.16
- Pin Length: 0.62
- Pin Spacing: 0.10
- Pin Diameter: 0.125

Front View Dimensions:

- Overall Width: 8.98
- Overall Height: 8.17
- Pin Pitch: 0.20 ± 0.05
- Pin Length: 0.80
- Pin Spacing: 1.60
- Pin Diameter: 0.125

Technical drawing of the USB Type-C connector showing a top view with dimensions.

Top View Dimensions:

- Overall Width: 9.64
- Overall Height: 9.87
- Pin Pitch: 0.20 ± 0.05
- Pin Length: 0.80
- Pin Spacing: 1.60
- Pin Diameter: 0.125

Technical drawing of the USB Type-C connector showing a side view with dimensions.

Side View Dimensions:

- Overall Height: 3.16
- Pin Length: 0.62
- Pin Spacing: 0.10
- Pin Diameter: 0.125

Technical drawing of the USB Type-C connector showing a front view with dimensions.

Front View Dimensions:

- Overall Width: 8.98
- Overall Height: 8.17
- Pin Pitch: 0.20 ± 0.05
- Pin Length: 0.80
- Pin Spacing: 1.60
- Pin Diameter: 0.125

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

NOTES:

SPECIFICATION:

- CURRENT RATING: 5A FOR VBUS PIN; 1.25A FOR VCONN PIN.
- DIELECTRIC WITHSTANDING VOLTAGE: 100V AC R.M.S.
- TEMPERATURE RANGE: -30 °C ~ 85 °C
- CONTACT RESISTANCE: 40mΩ Max
- INSULATION RESISTANCE: 100 MΩ Min.
- INSERTION FORCE : 5N~20N
- UNMATING FORCE: 8N~20N
- DURABILITY: 10,000 CYCLES
- SALT SPRAY: 24H
- PLATING:

TERMINAL CONTACT: GOLD PLATING ALL OVER 50U" NICKEL AND 80U" TIN ALL OVER 50U" NICKEL ON SOLDER AREA.

SHELL: 50U" NICKEL ALL OVER.

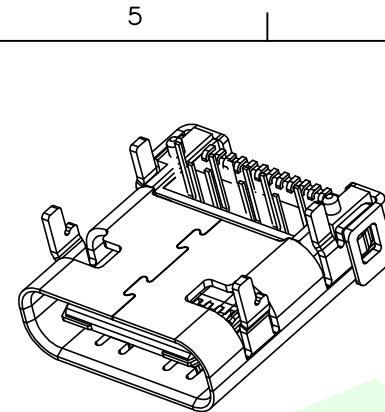
11. "▼" SHOWS QIP INSPECTION ITEM.

Diagram showing the LCK-TCF 912 - L987 Y L- G1 connector with dimensions and labels.

Labels:

- 壳长: 9.87
- 有柱无柱 T: 管装
- Y: 有柱
- W: 无柱
- 电镀规格: G1: 1U, G3: 3U (以此类推)
- 包装方式: L: 圆盘, B: 吸塑盒

4	SHELL	STAINLESS STEEL	NI Plated	1PCS					
3	SPRING	STAINLESS STEEL	---	1PCS					
2	CONTACT	COPPER ALLOY	Au on Contact area	2SET					
1	HOUSING	HIGH TEMPERATURE PLASTIC	BLACK	1PCS					
NO.	DESCRIPTION	MATERIAL	REMARKS	QTY					
QUADRANT POINT (QP)		 联晟欣连接器（深圳）有限公司 Lianshengxin Connector (Shenzhen) Co., Ltd							
TANGENCY POINT (TP)									
INTERSECTION POINT (IP)									
UNLESS OTHERWISE SPECIFIED, TOLERANCE:		DESIGN	Andy	DATE	2014.12.24	TITLE:	USB C F TYPE C 24PIN有缺口		
X.		CHECKED		DATE			DIP+SMT CONN.L=9.87		
X.x		APPROVED		DATE					
X.xx		PART NO:	LCK-TCF912-L987YL-G1	REV:	04	SCALE:	1:1	UNIT:	mm
ANGULAR		DRAWING NO:	102022208C	SIZE:	A4	SHEET:	1/1		



SPECIFICATION:

1. CURRENT RATING: 5A FOR VBUS PIN;
1.25A FOR VCONN PIN.
2. DIELECTRIC WITHSTANDING VOLTAGE: 100V AC R.M.S.
3. TEMPERATURE RANGE: -30 °C ~ 85 °C
4. CONTACT RESISTANCE: 40mΩ Max
5. INSULATION RESISTANCE: 100 MΩ Min.
6. INSERTION FORCE : 5N~20N
7. UNMATING FORCE: 8N~20N
8. DURABILITY: 10,000 CYCLES
9. SALT SPRAY: 24H
10. PLATING:
TERMINAL CONTACT: GOLD PLATING ALL
OVER 50U" NICKEL AND 80U" TIN ALL OVER
50U" NICKEL ON SOLDER AREA.
SHELL: 50U" NICKEL ALL OVER.
11. "▼" SHOWS QIP INSPECTION ITEM.

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
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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

LCK-TCF 912 - L987 Y L- G1
 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
 壳长
 L987: 9.87
 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

4	SHELL	STAINLESS STEEL	NI Plated	1PCS
3	SPRING	STAINLESS STEEL	---	1PCS
2	CONTACT	COPPER ALLOY	Au on Contact area	2SET
1	HOUSING	HIGH TEMPERATURE PLASTIC	BLACK	1PCS
NO.	DESCRIPTION	MATERIAL	REMARKS	QTY

QUADRANT POINT TANGENCY POINT INTERSECTION POINT	QP	 联晟欣连接器（深圳）有限公司 Lianshengxin Connector (Shenzhen) Co., Ltd			
	TP				
	IP				
UNLESS OTHERWISE SPECIFIED, TOLERANCE: X. ±0.25 X.x ±0.20 X.xx ±0.15 ANGULAR ±3°		DESIGN Andy	DATE 2014.12.24	TITLE: USB C F TYPE C 24PIN有缺□ DIP+0MT CONN.L=9.87	
		CHECKED	DATE		
		APPROVED	DATE		
PART NO: LCK-TCF912-L987YL-G1			REV: 04		
DRAWING NO: 102022208C			SCALE: 1:1		
			UNIT: mm		
			SIZE: A4		
			SHEET: 1/1		
			UNIT: 		