

Technical drawing of a connector assembly, showing multiple views (top, side, cross-section) and dimensions. The drawing includes a detailed view of the connector housing and a table of dimensions.

Dimensions (mm):

- Top View: 6.5, 5.9, 8.35±0.25, 9.8
- Side View: 5.95, 8.0±0.2, 8.35±0.25, 2.00, 0.15
- Bottom View: 0.80
- Pin Dimensions: 1.3mm, 2.54±0.05, 6.50, 3.00, 2.9, 1.14±0.1

Table of Dimensions:

DIM	TOL	DIM	DEG
X		X°	±3.00°
XX	±0.35	XX°	±2.00°
XXX	±0.25	XXX°	±1.00°
XXXX	±0.15	XXXX°	

Assembly Details:

- Pin 1: Housing, 1 PCS
- Pin 2: FITTING NAIL, 2 PCS
- Pin 3: Cap, 1 PCS
- Pin 4: Housing, 1 PCS

Material Specifications:

- Pin 1: LCP (UL94V-0), 颜色: 本色或黑色
- Pin 2: 磷青铜, 电镀: 镀亮锡60u"MIN
- Pin 3: 磷青铜, 电镀: 镀亮锡60u"MIN
- Pin 4: LCP (UL94V-0), 颜色: 本色或黑色

Customer Drawing:

Customer: 黄彬
Design: 张伟
Check: 罗小春
Approved: 罗小春

General Tolerances:

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Rev. Table:

REV.	EC#	DESCRIPTION	DATE	DRAWN	CHECK	APPROVED
1.00		最终设计	2020-07-22			

Pin Dimensions Table:

Pin	DIM.A	DIM.B	DIM.C
15	35.00	40.00	42.50
14	32.50	37.50	40.00
13	30.00	35.00	37.50
12	27.50	32.50	35.00
11	25.00	30.00	32.50
10	22.50	27.50	30.00
9	20.00	25.00	27.50
8	17.50	22.50	25.00
7	15.00	20.00	22.50
6	12.50	17.50	20.00
5	10.00	15.00	17.50
4	7.50	12.50	15.00
3	5.00	10.00	12.50
2	2.50	7.50	10.00
Pin	DIM.A	DIM.B	DIM.C

Notes:

1. 工作温度: -25°C~85°C.
2. 适用线规: AWG#26~#22.
3. 额定电压: 250V DC/AC(rms).
4. 额定电流: 3.0A.
5. 接触电阻: ≤20mΩ.
6. 耐压值: 1000V AC/minute.
7. 绝缘电阻: ≥1000MΩ.

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深圳市韩下电子有限公司

Shenzhen Hanxia Electronic Co., Ltd

Tel: 0755-33819206 Fax: 0755-27597491

承 认 书

SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

针座

规格型号 Part No:

HX 2.54mm-10P LT

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	黄彬	
审核/Check	张伟	
批准/Approved	罗小春	



深圳市韩下电子有限公司

1、SCOPE: (适用范围)

1.1 This specification covers production and inspection of Connector.

本规范内容适用于本公司普通系列型条形连接器（针座）产品的生产与检验。

2、USE CONDITION: (使用条件)

2.1 Ambient temperature Range:-25℃～+85℃

环境温度：-25℃～+85℃

2.2 Applicable PC board thickness:1.2~1.6mm

适用 PC 板厚度：1.2~1.6 mm

3、Appearance and Dimension: (外观及尺寸)

3.1 Appearance:Product surface without defect、dirt、crack、and mechanical damang,
Contact without rust,plating not oxided and not peeled.

产品表面不应有对制品有害的缺陷、污垢、裂痕及机械损伤；接触件无锈蚀、镀层氧化、脱落等现象。

3.2 Dimension:According to drawings

外形尺寸：依照附图

3.3 Exchangable:Exchangable with same specification products.

互换性：相同规格应能互换

4、Material:

材 料 （以图纸为准）

P/N 零件名称	Type 类 型	Material 材 料	Finish 表面处理	Expiain 说 明
Terminal 端子	Contact 插 簧	Phosphor bronze 锡青磷铜 厚 0.15mm	Tin Plating:3~4 μ m 镀锡：3~4 μ m	RoHS Comp liant
Housing 孔 座	Plastic 塑 壳	Nylon66 UL94V-0	Color:White 颜色：白色	
OpeningWafer 开口针座	Contact 插 针	Phosphor bronze 锡青磷铜 厚 0.30mm	Tin Plating:3~4 μ m 镀锡：3~4 μ m	
	Plastic 塑 壳	Nylon46 UL94V-0	Color: Beige 颜色：米色	
Lips Wafer 闭口针座	Contact 插 针	Phosphor bronze 锡青磷铜 厚 0.30mm	Gold Plating:3~4 μ " m 镀金：3~4 μ " m	
	Plastic 塑 壳	PBT UL94V-0	Color: White 颜色：白色	
Tiepian Wafer 卧贴针座 立贴针座	Contact 插 针	Phosphor bronze 锡青磷铜 厚 0.30mm	Tin Plating:3~4 μ m 镀锡：3~4 μ m	
	Solder tabs 焊护耳	Phosphor bronze 锡青磷铜 厚 0.25mm	Tin Plating:3~4 μ m 镀锡：3~4 μ m	
	Plastic 塑 壳	Nylon46 UL94V-0	Color: Beige 颜色：米色	

5、Electrical Performance:

电气性能

NO. 序号	Item 项目	Requirement 技术要求
5.1	Voltage Rated 额定电压	250V AC DC
5.2	Current Rated 额定电流	3A AC DC
5.3	Contact Resistance 接触电阻	$\leq 20\text{ m}\Omega$
5.4	Insulation Resistance 绝缘电阻	$\geq 1000\text{M}\Omega$
5.5	Dielectric Strength 耐压	$\geq 1000\text{V AC/minute}$

6、Mechanical Performance:

机械性能

NO. 序号	Item 项目	Requirement 技术要求
6.1	Male contact Retention force PIN 针固定力	$\geq 10\text{N}$ per pin
6.2	Female contact Retention force 端子固定力	$\geq 10\text{N}$ per pin
6.3	Plug-in force 插入力	$\leq 3\text{N}$ per pin
6.4	Plug-out force 拔出力	$\geq 0.5\text{N}$ per pin

7、Endurance Characteristics:

环境性能

NO. 序号	Item 项目	Requirement 技术要求
7.1	Soldering test 可焊性	Time: $2.5 \pm 0.5\text{S}$ 时间: $2.5 \pm 0.5\text{S}$ Temperature: $250 \pm 5^\circ\text{C}$ 温度: $250 \pm 5^\circ\text{C}$ Area of Soldering: $\geq 95\%$ 焊锡面积: $\geq 95\%$
7.2	Resistance to soldering Heat 耐焊接热	Time: $5 \pm 1\text{S}$ 时间: $5 \pm 1\text{S}$ Temperature: $250 \pm 5^\circ\text{C}$ 温度: $250 \pm 5^\circ\text{C}$ Appearance: NO Damage 外观: 无损坏

7.3	Heat test 耐热性	Time:96h 时间: 96 小时 Temperature:+85±3℃ 温度: +85±3℃ Appearance:NO Damage 外观: 无损坏 Contact resistance: ≤20 mΩ 接触电阻: ≤20 mΩ
7.4	Cold test 耐冷性	Time:48h 时间: 48 小时 Temperature:-25±3℃ 温度: -25±3℃ Appearance:NO Damage 外观: 无损坏 Contact resistance: ≤20 mΩ 接触电阻: ≤20 mΩ
7.5	Temperature Cycling 温度循环	Low temperature:-25±3℃ 低温: -25±3℃ High temperature:85±3℃ 高温: 85±3℃ For 5 cycles.test after keeping in Normal Condition for 30 min. 5 次循环后, 放置在正常环境中 30 分钟, 进行测试 Appearance: NO Damage 外观: 无损坏 Contact resistance: ≤20 mΩ 接触电阻: ≤20mΩ
7.6	Invariab lenes humidity 恒定湿热	Temperature:60±2℃ 温度: 60±2℃ Relative humidity:90%-96% RH 相对湿度: 90%-96% RH Tim:96h 时间: 96 小时 Appearance:NO Damage 外观: 无损坏 Contact resistance: ≤20 mΩ 接触电阻: ≤20 mΩ Insulation Resistance: ≥100MΩ 绝缘电阻: ≥100 MΩ
7.7	Salt Spray 盐雾试验	Salt concentration: 5±1% 浓度: 5±1% Temperature:35±2℃ 温度: 35±2℃ Tim:16±2h 时间: 16±2 小时 After salt is removed by running wafer and A drop is removed ,it is measured. 把试验样品从试验箱顶悬挂下来, 采用浓度 (5±1) %的 氯化钠溶液, 连续雾化 16 小时, 试验后用流动的蒸馏水 轻轻洗去表面沉积物, 在常温常驻湿条件下恢复 1-2 小时, 外观无损伤 Appearance:NO Damage 外观: 无损坏 Contact resistance: ≤20 mΩ 接触电阻: ≤20 mΩ