

WENZHOU LIANZHONG AUTO PARTS CO., LTD.

Product Name	LZ20023series	Rev.	A
Part Number.	20023	Date	2018-05-21
CONN TYPE	2.0mm WTW CONN	Page	1/7

Product Specification

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Date: 2018-05-21

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Date: 2018-05-21

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Date: 2018-05-21

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Revision History

[illegible]

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1. SCOPE: (适用范围)

1.1 This specification covers production and inspection of Model LZ20023 Connector.

本规范内容适用于本公司 LZ20023型条形连接器产品的生产与检验.

2. USE CONDITION: (使用条件)

2.1 Ambient temperature Range (环境温度): $-25^{\circ}\text{C}\sim+85^{\circ}\text{C}$.

2.2 Applicable Wire Sizes (适用线规): AWG#26~#22.

Insulation O.D. $\varnothing 1.4$ to 1.7mm.

3. Appearance and Dimension: (外观及尺寸)

3.1 Appearance (外观) Product surface without defect: dirt, crack, and mechanical damage, contact without rust, plating not oxidized 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 (外形尺寸) According to drawings. 依照附图所示.

3.3 Exchangable (互换性) Exchangable with same specification products.

相同规格应能互换.

4. Material: (材料)

P/N (零件名称)	Type (类型)	Material (材料)	Finish (表面处理)	Explain (说明)
P-Terminal	Contact (插簧)	Phosphor bronze (磷青铜)	Tin Plated	RoHS Compliant
R-Terminal	Contact (插针)	Phosphor bronze (磷青铜)	Tin Plated	

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)	100V AC, DC.

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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	P-Terminal Retention force (插簧固定力)	$\geq 15\text{N}$ (per pin)
6.2	R-Terminal Retention force (插针固定力)	$\geq 15\text{N}$ (per pin)
6.3	Plug-in force (插入力)	$\leq 5\text{N}$ (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 rest (可焊性)	Time (时间): $2.5 \pm 0.5\text{S}$; Temperature (温度): $235 \pm 5^\circ\text{C}$;

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		Area of Soldering (焊锡面) : $\geq 90\%$
7.2	Resistance to Soldering Heat (耐焊接热)	Time (时间) : $5 \pm 1s$; Temperature (温度) : $260 \pm 5^{\circ}C$; Appearance (外观) : No Damage (无损坏)
7.3	Heat test (耐热性)	Time (时间) : 96h Temperature (温度) : $+85 \pm 3^{\circ}C$; Appearance (外观) : No Damage (无损坏) Contact resistance (接触电阻) : $\leq 40\ m\Omega$
8.4	Cold test (耐冷性)	Time (时间) : 48h Temperature (温度) : $-25 \pm 3^{\circ}C$; Appearance (外观) : No Damage (无损坏) Contact resistance (接触电阻) : $\leq 40\ m\Omega$
7.5	Temperature Cycling (温度循环)	Low temperature (低温) : $-25 \pm 3^{\circ}C$ High temperature (高温) : $+85 \pm 3^{\circ}C$; 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, 再进 行测试 Appearance (外观) : No Damage (无损坏) Contact resistance (接触电阻) : $\leq 40\ m\Omega$

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7.6	Invariablenes humidity (恒定湿热)	Temperature (温度) : $60\pm 2^{\circ}\text{C}$ Relative humidity (相对湿度) : 90%-96% RH; Time (时间) : 96h Appearance (外观) : No Damage (无损坏) Contact resistance (接触电阻) : $\leq 40\text{ m}\Omega$ Insulation Resistance 绝缘电阻 : $\geq 1000\text{ M}\Omega$
7.7	Salt Spray (盐雾试验)	Salt concentration (浓度) : $5\pm 1\%$ Temperature (温度) : $35\pm 2^{\circ}\text{C}$ Testing time (时间) : $24\pm 2\text{h}$ 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, 采用浓度为 $(5\pm 1)\%$ 的氯化钠溶液, 连续雾化 24h, 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 1-2h. 外观无损伤 Appearance (外观) : No Damage (无损坏) Contact resistance (接触电阻) : $\leq 40\text{ m}\Omega$

8、Packaging Transportation Storage: (包装 运输 贮存)

8.1 Packaging(包装)

- (1) The packing of plastic inner is the plastic bag, the packing of inner terminal is panel mounting attach material packing, marked with product name, specification model, quantity, date in produced.
塑壳内包装为塑料袋, 端子内包装为盘装带料包装, 装(贴)入合格证, 注明产品名称、规格型号、数量生产日期.
- (2) Exterior package is carton, facing the packing list, the packing list marked with product name, specification model, quantity, date of dispatch.

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外包装为纸箱，贴装箱单，装箱单上注明产品名称、规格型号、数量、出货日期。

(3) The product in the box must not rock.

产品在箱内不晃动。

8.2 Transportation (运输)

Allow for any way transportation, can't get wet and mechanical injury.

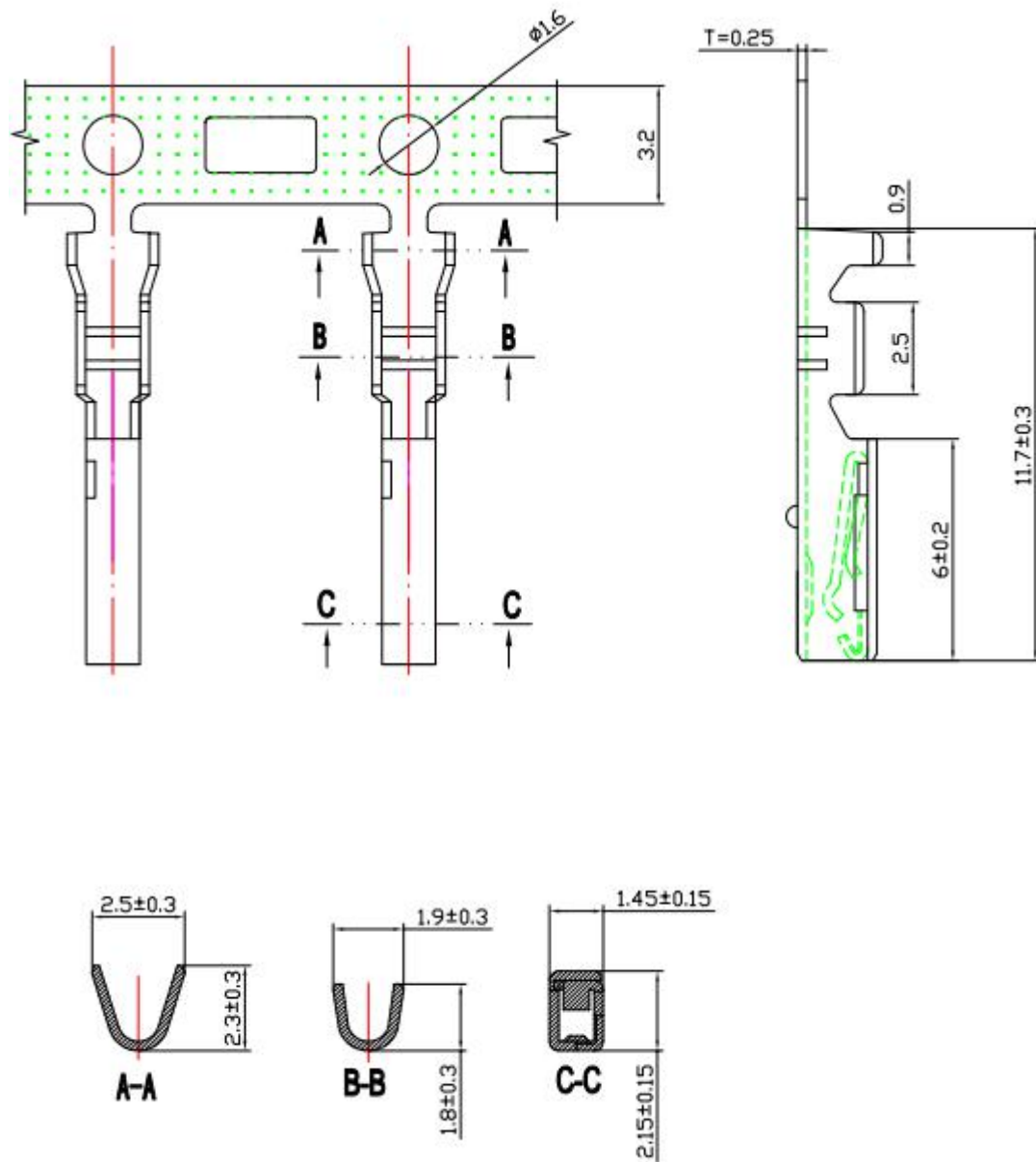
允许用任何方式运输，勿淋湿及机械性损伤。

8.3 Storage (贮存)

The connector of packing finished should be in the ambient temperature between -10°C to $+40^{\circ}\text{C}$, relative humidity $\leq 80\%$. To store in storehouse does not have acidic, alkaline air and other corrosive gas in the ambient air.

包装完毕的连接器应在环境温度为 $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$ ，相对湿度 $\leq 80\%$ ，周围空气中没有酸性，碱性及其它腐蚀性气体的库房中贮存。

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