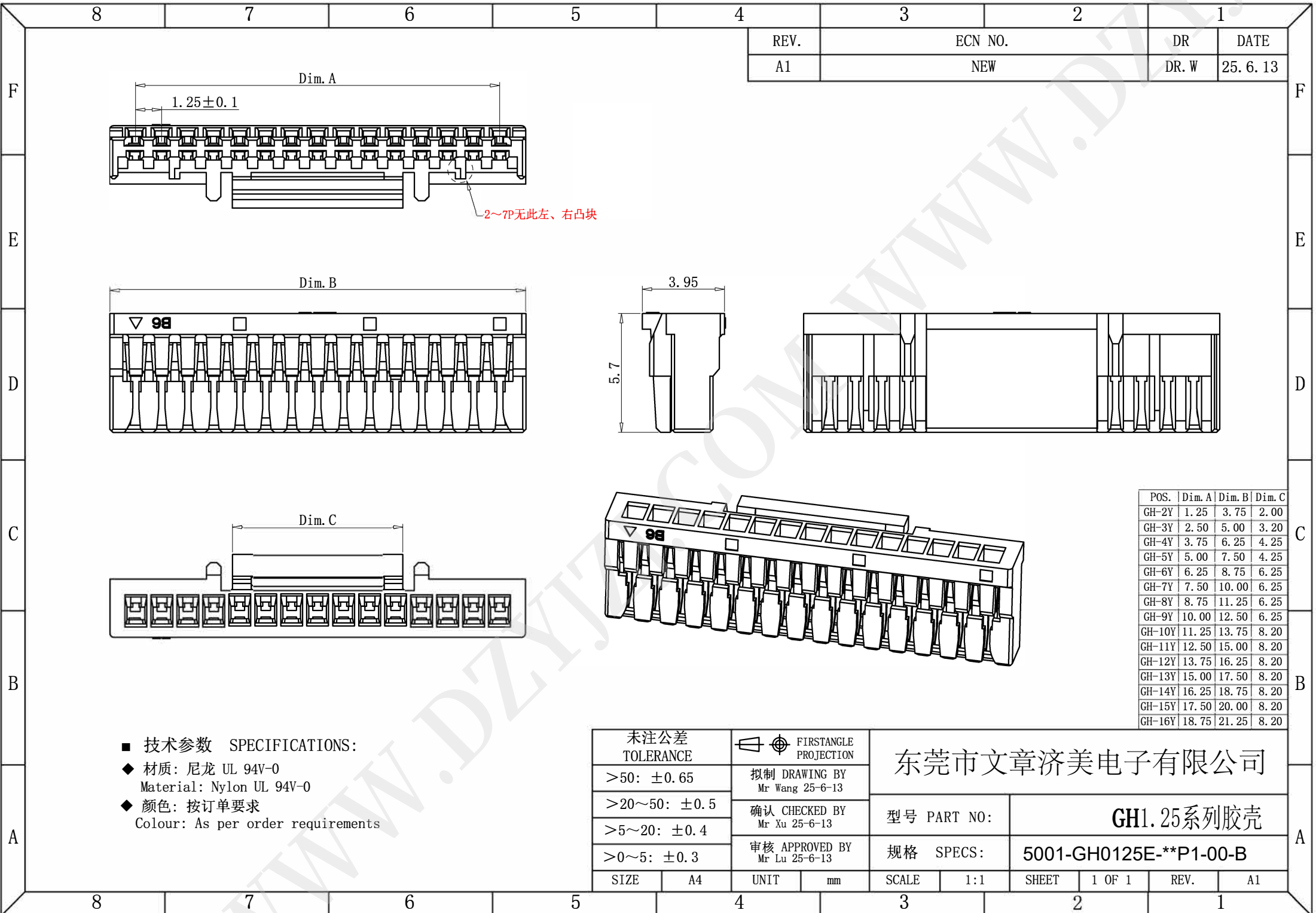




REV.	ECN NO.	DR	DATE
A1	NEW	DR. W	25. 6. 13

POS.	Dim. A	Dim. B	Dim. C
GH-2Y	1.25	3.75	2.00
GH-3Y	2.50	5.00	3.20
GH-4Y	3.75	6.25	4.25
GH-5Y	5.00	7.50	4.25
GH-6Y	6.25	8.75	6.25
GH-7Y	7.50	10.00	6.25
GH-8Y	8.75	11.25	6.25
GH-9Y	10.00	12.50	6.25
GH-10Y	11.25	13.75	8.20
GH-11Y	12.50	15.00	8.20
GH-12Y	13.75	16.25	8.20
GH-13Y	15.00	17.50	8.20
GH-14Y	16.25	18.75	8.20
GH-15Y	17.50	20.00	8.20
GH-16Y	18.75	21.25	8.20

- 技术参数 SPECIFICATIONS:
- ◆ 材质: 尼龙 UL 94V-0
Material: Nylon UL 94V-0
 - ◆ 颜色: 按订单要求
Colour: As per order requirements

未注公差 TOLERANCE		 FIRSTANGLE PROJECTION		东莞市文章济美电子有限公司						
>50: ±0.65		拟制 DRAWING BY Mr Wang 25-6-13		型号 PART NO:			GH1.25系列胶壳			
>20~50: ±0.5		确认 CHECKED BY Mr Xu 25-6-13								
>5~20: ±0.4		审核 APPROVED BY Mr Lu 25-6-13								
>0~5: ±0.3				规格 SPECS:		5001-GH0125E-**P1-00-B				
SIZE	A4	UNIT	mm	SCALE	1:1	SHEET	1 OF 1	REV.	A1	

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1、SCOPE: (适用范围)

1.1 This product specification is applicable to GH series models produced by Zhejiang Chengming Electronic Technology Co., LTD Electronic connector

本产品规格书适用于浙江成明电子科技有限公司生产的 GH 系列电子连接器

1.2 参考标准 The reference standard

GB/T2421 电工电子产品环境试验第一部分总则

Testing Method for Environmental of Electrical Connectors Class 1: General Principles

GB/T 2423 电工电子产品环境试验方法

Testing Method for Environmental of Electrical Connectors

GB/T 2424 电工电子产品环境试验导则

Testing Method for Environmental of Electrical Connectors

GB/T 5095 电子设备机电元件基本试验规程及测量方法

Testing procedure/Method for components of electric equipment

2、PRODUCT CLASSIFICATION(产品分类)

2.1 Poles: 2~16

接触件数目: 2~16

2.2 Example of product model(产品型号示例)

6 contact housing: GH-6Y

具有 6 个接触件的连接器胶壳: GH-6Y

3、USE CONDITION(使用条件)

3.1 ambient temperature(环境温度): $-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$

3.2 applicable wire sizes(适用线规): AWG #28~#32

3.3 applicable wire the Insulation O.D. (适用线的绝缘外径): ($\varnothing 0.9\sim 0.5$)mm

4、APPEARANCE AND DIMENSION(外观及尺寸)

4.1 appearance(外观):

① The surface of the plastic parts should be in good condition、consistent in colour and luster, without cracks、impurities、dirt、flying edges mechanical damage and other defects;

塑件表面应完好无损、色泽一致, 无裂痕、杂料、污垢、飞边、机械损伤等缺陷;

② Metal surface should be smooth、uniform color, no cracks、burrs、deformation、corrosion rust、Coating falling off and other undesirable;

金属件表面应平整光滑、色泽均匀, 无裂痕、毛刺、变形、腐蚀、镀层脱落等不良;

4.2 dimension(外形尺寸): Refer to the product drawing(参照产品图)

4.3 Interchangeability(互换性):

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Replace the same type of product (可替换同类型产品)

5、 MATERIAL (材料)

[illegible]

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6、ELECTRICAL PERFORMANCE: (电气性能)

NO. 序号	Item 项目	technical requirement 技术要求
6.1	Rated Voltage (额定电压)	125V AC, DC
6.2	Rated Current (额定电流)	1.0A
6.3	Contact Resistance (接触电阻)	$\leq 20 \text{ m}\Omega$ 测试后 $\leq 30 \text{ m}\Omega$
6.4	Insulation Resistance (绝缘电阻)	$\geq 100 \text{ M}\Omega$ 测试后 $\geq 50 \text{ M}\Omega$
6.5	Withstand Voltage (耐压)	250V AC/minute

7、MECHANICAL PERFORMANCE: (机械性能)

NO. 序号	Item 项目	Test Condition 测试条件	technical requirement 技术要求
7.1	Single terminal penetration force into the rubber shell (单只端子插入胶壳的插入力)	在端子上施加轴向插入力, 以 25 ± 6 毫米/分钟 Apply an axial insertion force on the terminal at a rate of $25 \pm 6 \text{ mm}$ per minute.	$\leq 5\text{N}$
7.2	Holding force between single terminal and rubber shell (单只端子与胶壳的保持力)	端子上的轴向, 以 25 ± 6 毫米/分钟的速率从胶壳拔出 力 Axial pullout force on the terminal in the housing at a rate of $25 \pm 6 \text{ mm}$ per minute	$\geq 7\text{N}$

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7.3	Single contact withdrawal force (单只端子与插针插拔力)	单个母壳端子与公端插针插拔，速率为 25 ± 6 mm/分钟 Single female terminal and male pin insertion and extraction The rate is 25 ± 6 mm/minute	插入力: $\leq 6N$ 拔出力: $\geq 0.2N$
7.4	Retention force between pin and housing (插针与壳体的保持力)	对单只插针施加大于 3 牛轴向向外顶出力，速率为 25 ± 6 mm/分钟 Apply an axial outward pushing force of more than 3 N to a single pin at a rate of 25 ± 6 mm/minute	无松动或脱落 No become less crowded or desquaaamate
7.5	Insertion and removal life (插拔寿命)	以每分钟 10 次的速度插拔 30 次。 30 cycles mating and unmating test at the speed 10 cycles per minute	Contact Resistance (接触电阻): ≤ 30 mΩ Insulation Resistance (绝缘电阻): ≥ 50 MΩ Withstand Voltage (耐压): $250V$ AC/minute
7.6	压着抗张强度 Crimp Tensile Strength	以每分钟 25 ± 6 毫米的速度在导线上施加轴向拉力 Apply axial tension on the wire at a speed of 25 ± 6 millimeters per minute	$\geq 10N$(AWG #28) $\geq 8N$(AWG #30) $\geq 5N$(AWG #32)

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8、ENDURANCE CHARACTERISTICS:(环境性能)

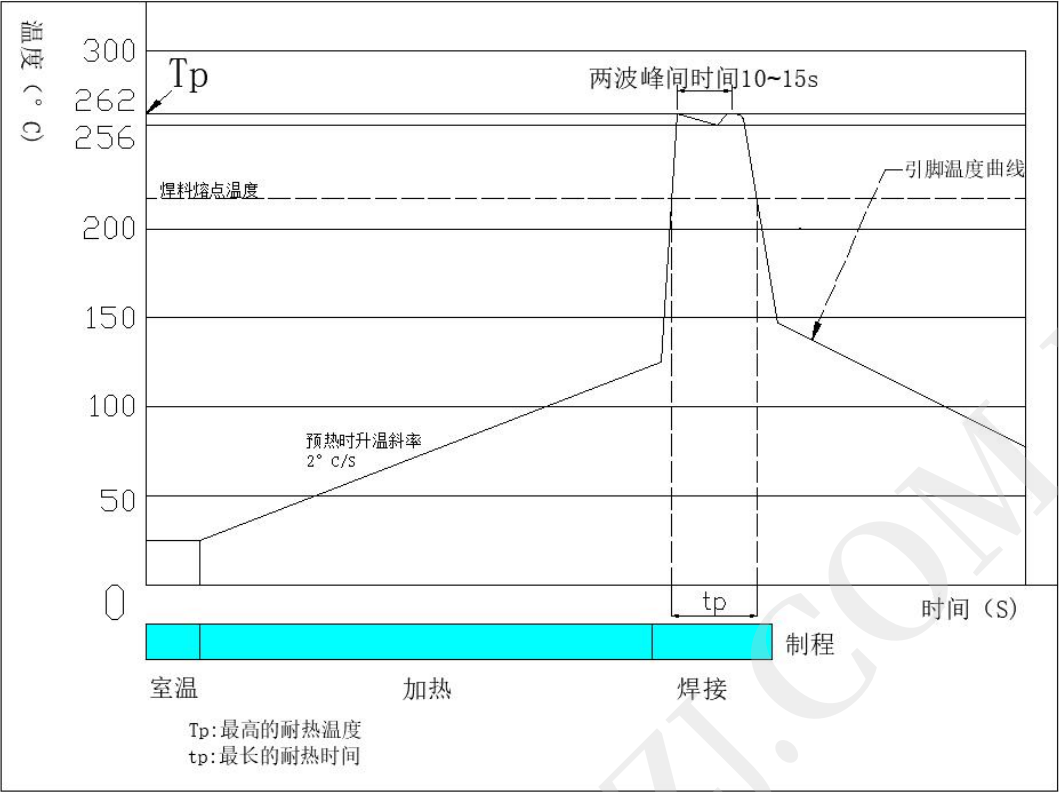
NO. 序号	Ltem 项目	Test Condition 测试条件	technical requirement 技术要求
8.1	Heat resisting performance (耐热性)	连接器配合后,于(105±3)℃的恒温恒湿试验箱中放置 96 小时,再回到室温中放置 1~2 小时测定 After fitting the connector, place it in a constant temperature and humidity test chamber at (105 ± 3) °C for 96 hours, and then return to room temperature for 1~2 hours for measurement	Appearance(外观): No damage(无损坏) Contact Resistance (接触电阻): $\leq 30\text{ m}\Omega$ Insulation Resistance (绝缘电阻): $\geq 50\text{ M}\Omega$ Withstand Voltage (耐压):250V AC/minute
8.2	Cold resisting performance (耐寒性)	连接器配合后,于-40±3℃的恒温恒湿试验箱中放置 96 小时,再回到室温中放置 1~2 小时测定 After fitting the connector, place it in a constant temperature and humidity test chamber at -40 ± 3 °C for 96 hours, and then return to room temperature for 1~2 hours for measurement	Appearance(外观): No damage(无损坏) Contact Resistance (接触电阻): $\leq 30\text{ m}\Omega$ Insulation Resistance (绝缘电阻): $\geq 50\text{ M}\Omega$ Withstand Voltage (耐压):250V AC/minute
8.3	Temperature replace performance (温度交替性能)	条件:-40±3℃(30 分钟), +105±3℃(30 钟),重复 10 次 Condition: -40±3℃(30 minutes), +105±3℃(30 minutes) Perform this a cycle, repeat 10 times。	Appearance(外观): No damage(无损坏) Contact Resistance (接触电阻): $\leq 30\text{ m}\Omega$ Insulation Resistance (绝缘电阻): $\geq 50\text{ M}\Omega$ Withstand Voltage (耐压):250V AC/minute
8.4	恒定湿热 Humidity	温度(60±3)℃, 相对湿度(90~95)% 搁置时间 96h,取出恢复(1~2)h 后检查. Mated connector exposed to the condition of 60±3℃ (90~95)% Humidity for96 hours. Recovery time (1~2) hours	Appearance(外观): No damage(无损坏) Contact Resistance (接触电阻): $\leq 30\text{ m}\Omega$ Insulation Resistance (绝缘电阻): $\geq 50\text{ M}\Omega$ Withstand Voltage (耐压):250V AC/minute

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8.5	Salt spray test (盐雾试验)	Salt concentration(含盐浓度): $5 \pm 1\%$ Temperature(温度): $35 \pm 3^{\circ}\text{C}$ Time(时间): 24 hour(先冲后镀 plating after stamp); 4 hour(先镀后冲 stamp after plating); By using the Sodium Chloride Solution at the same concentration, the sample will be atomized for a set time, and then the sample will be cleaned after testing to confirm whether the appearance is defective or not	Appearance(外观): No detrimental corrosion allowed in contact area and base metal exposed (应无露出底金属的严重腐蚀)
8.6	Temperature Rise (温升)	Mate connectors and all crimp terminals shall be connected in a direct series. The temperature rise shall be measured when the terminal reaches thermal equilibrium allowable current. 配合连接器和所有压接端子应以直接串联的方式连接。端子达到允许的热平衡	Temperature rise ≤ 30 degrees 温度上升 ≤ 30 度
8.7	Weldability (可焊性)	把试验样品需要焊接的部位浸入焊锡炉中, 锡炉温度: $245 \pm 5^{\circ}\text{C}$, 时间 $3 \pm 0.5\text{s}$ Dip solder tails into the molten solder(held at $245 \pm 5^{\circ}\text{C}$ for $3 \pm 0.5\text{sec}$).	Attachment Surface (附着面) $\geq 90\%$ Appearance(外观): No damage(无损坏)
8.8	Resistance to soldering heat performance (耐焊接性能)	Reflow (回流焊) 在最高温区温度为 $260 \pm 2/-4^{\circ}\text{C}$ 回流焊机中, 时长为 10~15 秒。 In the highest temperature zone of $260 \pm 2/-4^{\circ}\text{C}$ reflow soldering machine, the duration is 10-15 seconds	Appearance(外观): No damage(无损坏) Flatness (平面度): $\leq 0.12\text{mm}$
8.9	Glow wire test 灼热丝试验 (Suitable for hot wire materials适用灼热丝物料)	Cited standards: IEC 60695-2-13, IEC 60695-2-12 meet the following requirements. 1. GWIT: Hot wire at 750°C, duration $30 \pm 1\text{s}$, remove the hot wire, extinguish within 5s, does not ignite the substrate. 2. GWFIT: Hot wire at 850°C, duration $30 \pm 1\text{s}$, remove the hot wire, flaming time $\leq 30\text{s}$, does not ignite the substrate. 引用标准: IEC 60695-2-13, IEC 60695-2-12 满足如下要求。 1. GWIT: 灼热丝 750°C, 时间 $30 \pm 1\text{s}$, 移去灼热丝, 5S内熄灭, 不引燃铺底层。 2. GWFIT: 灼热丝 850°C, 时间 $30 \pm 1\text{s}$, 移去灼热丝, 着火时间余焰 $\leq 30\text{s}$, 不引燃铺底层。	

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回流焊曲线图



Insertion and Withdraw force 成品插拔力

PIN	首次插入力 (去锁扣) Insertiong (1st) max.	首次拔出力 (去锁扣) Withdrawal (1st) min.
2	18N	0.5N
3	19N	1.0N
4	20N	1.5N
5	21N	2.0N
6	24N	2.5N
7	27N	3.0N
8	30N	3.5N
9	33N	4.0N
10	36N	4.5N
11	39N	5.0N
12	42N	5.5N
13	45N	6.0N
14	48N	6.5N
15	51N	7.0N
16	54N	7.5N

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9、PACKAGING、TRANSPORTATION、STORAGE(包装、运输、贮存)

9.1 Packaging 包装

9.1.1 Plastic parts and Housing Using PE plastic bag (k/pcs) package, Inspection certificate is placed inside, the bag or outside the bag And other material identification, Then batch pack them in cartons;

塑料件与壳体基座类采用 PE 塑料袋(k/pcs)封装,袋内放置或袋外粘贴检验合格证及其它物料标识,然后成袋批量装入外包纸箱;

9.1.2 Continuous surround terminal, The surface should be affixed with relevant identification and inspection certificate, Stack a certain amount, Put on a large PE film bag, Piles are then loaded into the carton;

端子件类采用连绕盘式,盘面上应粘贴好相关标识及检验合格证,再叠堆一定数量,套上大型 PE 薄膜袋,然后成堆装入外包纸箱;

9.1.3 The inside and outside of the case and bag should be kept clean, dry and complete;

箱体和袋体内外应保持清洁干燥、确保完整无缺;

9.1.4 The list of accessories and external identification shall be checked clearly, and the type, quantity and date of products shall not be omitted or errors;

附件清单和外部标识应检查清楚,产品型号、数量、日期切勿遗漏或错误;

9.1.5 Packaging process should be anti-static, moisture-proof, dustproof, anti-corrosion, anti-shock and other measures;

包装过程应具备防静电、防潮、防尘、防腐蚀、防震动等措施;

9.2 Transportation(运输)

9.2.1 The transport box must stabilize it, prevent shaking beat, so as to avoid the bad;

运输箱体务必将其稳固,防止晃动摔打,以免造成不良;

9.2.2 Not limited to any way of transport, but to do protective measures, do not let the box have wet, excessive extrusion, heavy fall and so on;

不限制任何方式运输,但要做好防护措施,切勿让箱体有淋湿、过度挤压、重摔等现象;

9.3 Storage(贮存)

9.3.1 The tank should be stored at a temperature of $-10^{\circ}\text{C}\sim 40^{\circ}\text{C}$ 、The relative humidity $\leq 80\%$ in the environment, And the room should be air circulation, No acids bases salts

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and other corrosive gases, Do a good job of covering dirt; 箱体应贮存在温度为-10℃~40℃、相对湿度≤80%的

环境中, 且室内应空气流通, 无酸碱盐及其他腐蚀性气体, 做好遮掩灰垢措施;

9.3.2 Box packing should not be too high, Generally not more than three layers, Order should be correct, neat and orderly;

箱体堆积不宜过高, 一般不得超过三层, 摆列应端正、整齐、有序;

9.3.3 The storage period of the goods is usually one year, More than one year will have to be reexamined, After qualification Packing shipment again, Order of shipment is First in first out.

货品储藏期一般为一年, 超过一年则需重新检验, 合格后方可再次包装出货, 出货的次序应先入先出。