CHEVRON ELECTRONIC
诚潤電子

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承 认 书

Specification For Approval

产品信息 Product information

产 品 名 称Product name： 1245 贴片式陶瓷快断保险丝/1245 SMD Ceramic tube Fast acting fuse

产 品 规 格Product model： EBF xxAxxxV

拟 制 Prepared By	确 认 Reviewed By	批 准 Approved By
雷淑贤	邓 波	方 剑

客户承认 Customer Approval

客户名称 Customer name:

客户料号 Customer P/N:

经 办 Prepared By	审 核 Reviewed By	批 准 Approved By
确认结果 Verify the results：		
☐合格 Qualified	☐不合格 Unqualified	不合格原因 Root cause:

生效日期 Effective Date: 年 YY 月 MM 日 DD

1.如果本承认书获得贵司认可，请您签名后拷贝一份回传给我们。
If this acknowledgement letter is approved by your company, please sign it and send us a copy
2.当您下订单给诚润电子时，烦请在订单中列出上面产品信息表格中的产品名称和产品规格。
When you place an order with Chengrun Electronics, please kindly list the product names and specifications in the product information table above in the order form

变更履历

内　容	日　期	确 认
修改封面；增加履历页；修改内容；增加信赖性测试；完善产品特性项，	2025. 4. 27	方 剑
添加实物图片	2026.3.13	方 剑
9.C 增加存储条件；	2026.7.1	方 剑
明确电阻范围±20%	2026.8.20	方 剑

编　制	确　认	批　准
刘征东	邓　波	方　剑

1.适用范围 / Scope of Application

本产品适用于各类电子设备电路初、次级电路板的过流保护，广泛应用于固态照明、电池充电、消费电子、电子镇流器、LED AC/DC 电源供应、网络通信、医疗仪器及工业控制器等领域。

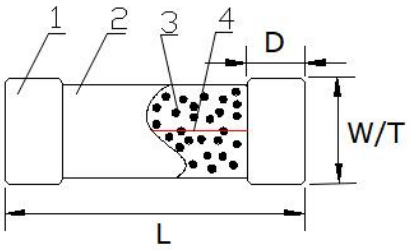
This product is suitable for overcurrent protection in primary and secondary circuit boards of various electronic devices. It is widely used in solid-state lighting, battery charging, consumer electronics, electronic ballasts, LED AC/DC power supplies, network communications, medical instruments, and industrial controllers.

2.适用测试标准/ Standards

遵循 UL248-14

In accordance with UL248-14

3.单体和编带结构及尺寸 / Structure and dimensions of individual units and tape carriers



Unit:mm

L	D	W	T
12±0.5	2.7±0.1	4.5±0.2	4.5±0.2

编号 No	各称 Name	材质 Materials
1	镀金铜帽 Au Cap	Au plated Cu
2	陶瓷管 Ceramic tube	Ceramic
3	填充物 Filled	石英砂 SiO_2



4	熔体 Element	合金 Alloy

4.认证清单/ Certification List

安规标准 Agency	认证电压 Certified voltage	认证电流 Ampere Range	证书编号 Agency File Number
UR-CUR	600Vac；250Vac；125Vac 32Vdc；60Vdc；63Vdc 72Vdc；80Vdc；125Vdc	1.25A, 1.5A, 1.6A, 2A, 2.5A, 3A, 3.15A, 4A, 5A, 6A, 6.3A, 8A 10A, 12A, 15A, 16A, 20A, 25A, 30A, 35A, 40A, 50A, 60A, 70A, 80A, 90A, 100A	E522468

5.产品标示 / Product Markin

保险丝外壳顶部需有下列标示：The top of the fuse cap shall have the following markings

以 100A 举例：Example 100A

	100A	EBF	c UL us
1	2	3	4

1 工厂徽标：Chevron Logo：

2 额定电流：Rated Current：100A

3 产品名称：Product name: EBF

4 安规符号：Certification Aproval See the Product Characteristic

注意：A.对于标示的大小和位置没有规定 Size and position of the markings shall not be provided;

B. 其它电流对应安规符号请参考产品特性中 Marking 栏 For other current values, please refer to the "Marking" column in the product characteristics for the corresponding safety marking symbols

6.产品外观和形状要求/ Appearance and shape requirements

A. 外观不应出现显著的污点、裂纹，标识应该容易辨识

There shall not be any remarkable stain and crack on the appearances, markings shall be easily legible

B. 贴片式陶瓷保险丝

SMD type ceramic tube fuse

C. 铜帽平整，不出现歪帽现象

The copper cap is flat and does not exhibit any skewed appearance

7.产品特性/Product Characteristic

Part No	Rated Current	Rated Voltage	Typic Cold DCR(mΩ ± 20%)	Breaking Capacity	I^2T A^2s	Safety Approvals
EBF11250250	1.25A	600Vac 250Vac 125Vac 32Vdc 60Vdc 63Vdc 72Vdc 80Vdc 125Vdc	48.72mΩ	35A~100A 500A@125Vac 1000A@80Vdc 1000A@72Vdc 1000A@63Vdc 1000A@32Vdc 10A~60A 500A@125Vac 300A@250Vac 200mA~30A 500A@125Vac 300A@250vac 200mA~30A 800A@80Vdc 800A@72Vdc 800A@63Vdc 800A@60Vdc 800A@32Vdc	1.41	cULus
EBF11500250	1.5A		-		-	cULus
EBF11600250	1.6A		40.31mΩ		2.3	cULus
EBF12000250	2A		27.05mΩ		4	cULus
EBF12500250	2.5A		23.29mΩ		6.75	cULus
EBF13000250	3A		19.32mΩ		-	cULus
EBF13150250	3.15A		18.29mΩ		10.91	cULus
EBF14000250	4A		13.33mΩ		17.6	cULus
EBF15000250	5A		11.15mΩ		27.5	cULus
EBF16000250	6A		8.62mΩ		46.8	cULus
EBF16300250	6.3A		7.57mΩ		53..9	cULus
EBF18000250	8A		5.73mΩ		110	cULus
EBF11000250	10A		4.62mΩ		159.38	cULus
EBF21200250	12A		3.96mΩ		234	cULus

EBF21500250	15A		2.93mΩ		436	
EBF21600250	16A		2.45mΩ		576	
EBF22000250	20A		2.11mΩ		838.88	
EBF22500250	25A		1.53mΩ		1592.5	
EBF23000250	30A		1.29mΩ		2328	
EBF23500250	35A		1.16mΩ		2875	
EBF24000250	40A		0.913mΩ		5000	
EBF25000250	50A		0.90mΩ		5750	
EBF26000250	60A		0.60mΩ		15840	
EBF27000250	70A		0.58mΩ		18252	
EBF28000250	80A		0.45mΩ		28160	
EBF31000250	100A		0.40mΩ		38000	
A:32Vdc; B:60Vdc; C:63Vdc; D:72Vdc; E：80Vdc；F:125Vdc; G:125Vac; G:250Vac; H”600Vac 选择 1A250Vac 时，对应料号为 EBF1100G、When choosing 1A250Vac, the corresponding part number is EBF1100G						

8.特性测试/ characteristic test

测试条件/Test Condition

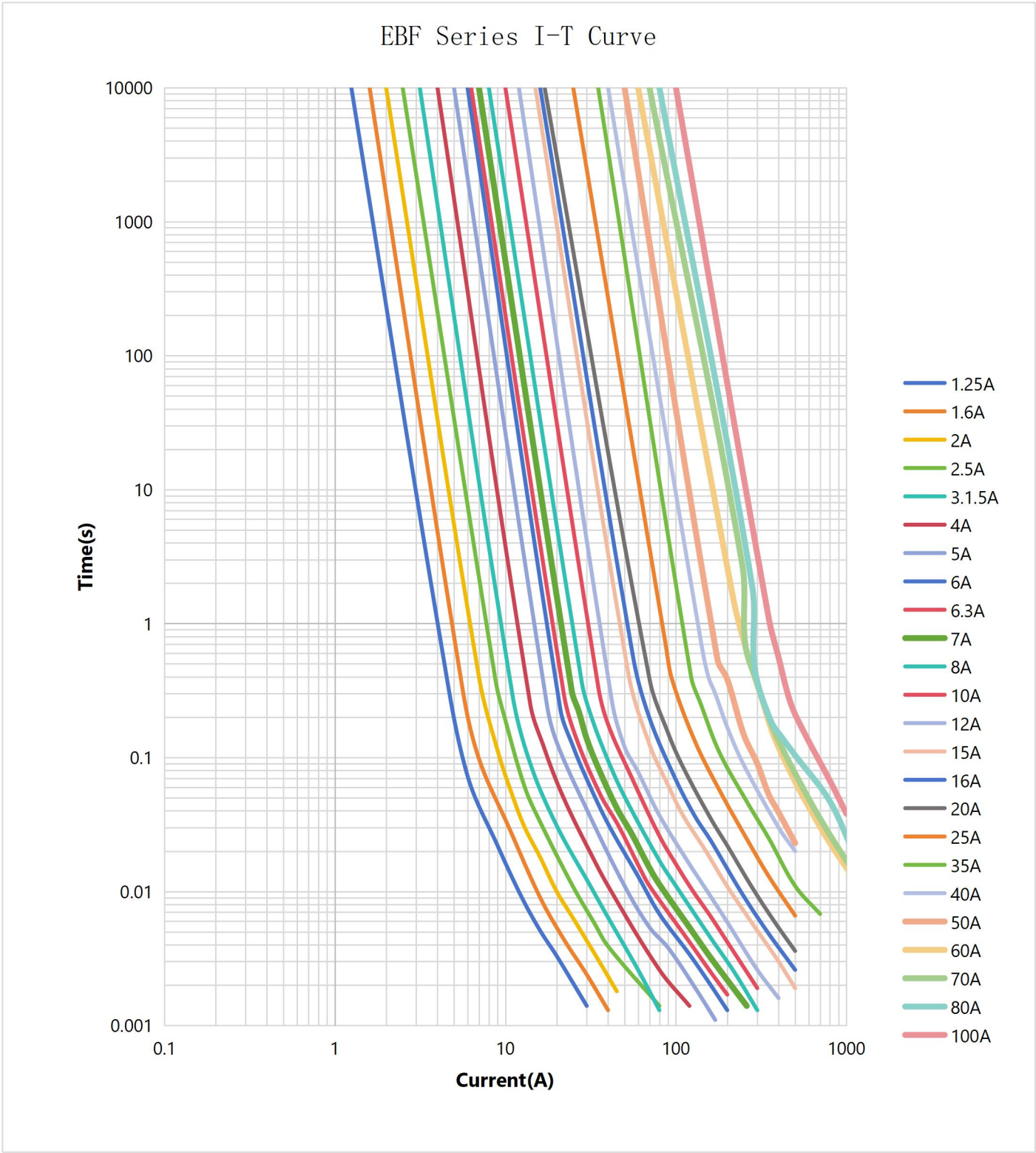
A. 所有的测试环境温度保持在 25±10°的范围内

All the test environments are maintained within the temperature range of 25 ± 10 °C

B. IT 特性测试参考下表/IT Characteristic test follow up the form

额定电流的%% of Ampere Rating	熔断时间 Opening Time（Time lag）
100%	T>4hrs
350%	T<10s

C．时间电流曲线参考图/IT time current curve



9.环境特性/ Environmental Characteristic

A. 正常操作温度范围-55℃～+125℃

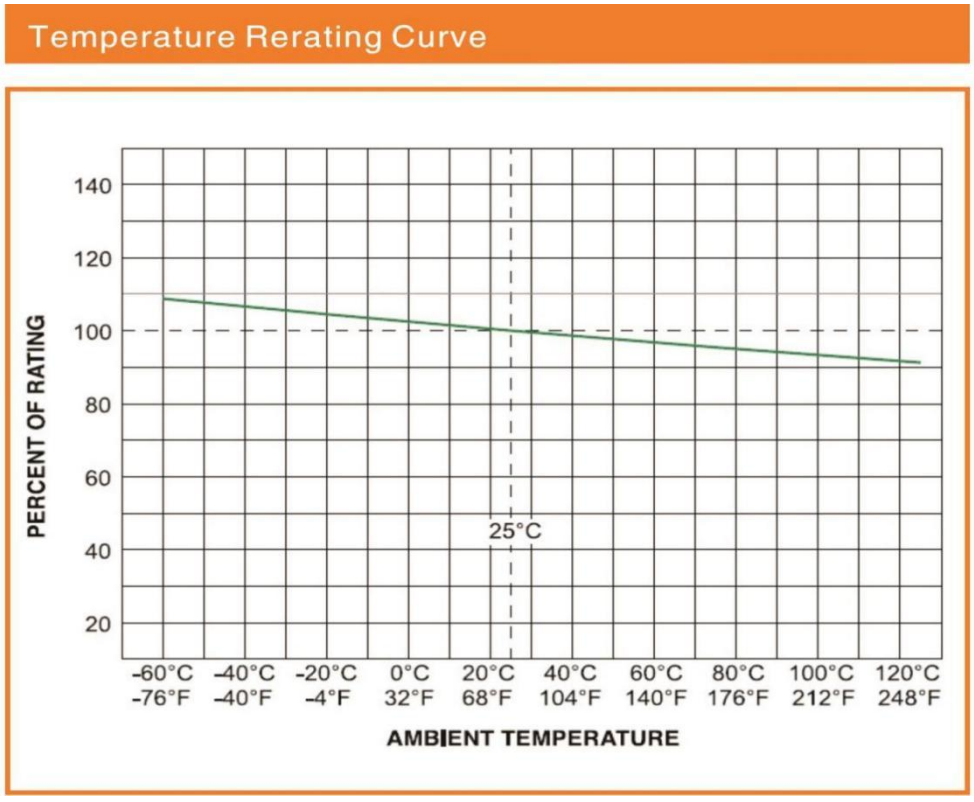
Operarting temperature -55℃～+125℃ nomal

B. 若工程师在设计保险丝安装的环境温度超出 25℃时，需要考虑环境温度对保险丝的寿命影响，请参考下面：

温度-电流曲线图

If the engineer finds that the ambient temperature where the fuse is installed exceeds 25℃, he/she needs to consider the influence of ambient temperature on the lifespan of the fuse. Please refer to the following:

Temperature - Current Curve Chart



C, 存储条件 / Storage Conditions

在温度+5℃~30℃、相对湿度 25%～60%的密闭条件下可存放 2 年。

Under airtight in temperature+5℃~ 30℃、relative humidity 25%～60% can store 2 years.

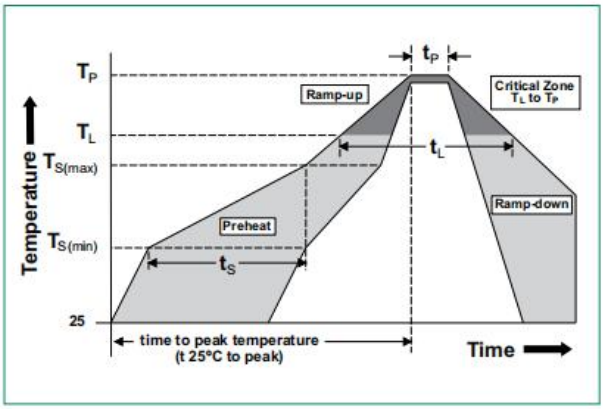
在温度+10℃~60℃、相对湿度为 95%的非露天下最多可存放 30 天。

Without dew in temperature+10℃~ 60℃、relative humidity be 95% maximum value for 30days.

D. 建议客户焊接参数

1. 建议回流焊参数 / Recommend Wave Parameters:

Reflow Condition		Pb – Free assembly
Pre Heat	-Temperature Min ($T_{s(min)}$)	150°C
	-Temperature Max ($T_{s(max)}$)	200°C
	-Time (Min to Max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak		3°C/second max.
$T_{S(max)}$ to T_L - Ramp-up Rate		3°C/second max.
Reflow	-Temperature (T_L) (Liquidus)	217°C
	-Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260$^{+0/-5}$ °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max.
Time 25°C to peak Temperature (T_p)		8 minutes max.
Do not exceed		260°C



2. 手工焊参数 / Hand-Solder Parameters:

烙铁温度及焊接时间 / Solder Iron Temperature: 370±10℃; Heating Time: 3s Max

烙铁避免接触铜帽 Soldering iron avoid touch Copper cap

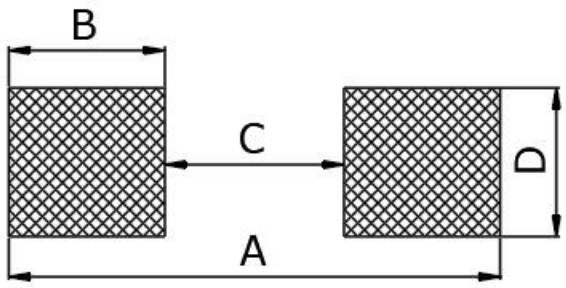
E. 信赖性测试/Reliability test

编号 No	项目 Item	内容 content
1	绝缘阻抗测试 Insulation Resistance test	100000Ω Minimal
2	可焊性测试 Solderability test	240±5℃; T=3±0.5s; Cover≧95%
3	耐焊接热测试 Soldering heat resistance test	260℃ 10s; IΔRI<10%
4	热冲击测试 Thermer shock	100 ctcles between -65℃~+125℃ 60minite; each extreme IΔRI<10%
5	高低温储存 High-low temperature storege	+125℃/-55℃ each 96 hrs; IΔRI<10%
6	高温操作 High temperature operating life	70±2℃; 0.6In;96hrs; IΔRI<10%
7	盐雾测试 Salt spray test	5% salt solution; 48hrs; IΔRI<10%

8	耐温性测试 Humidity test	T=40±2℃,90%-95%RH;1000hrs, IΔRI<10%

F. 安装建议 Installation Recommendations

建议按如下示意图安装 It is recommended to install as shown in the following diagram



A	B	C	D
13.38±0.1	3.79±0.1	5.8±0.1	5.65±0.1

10.包装 / Packaging

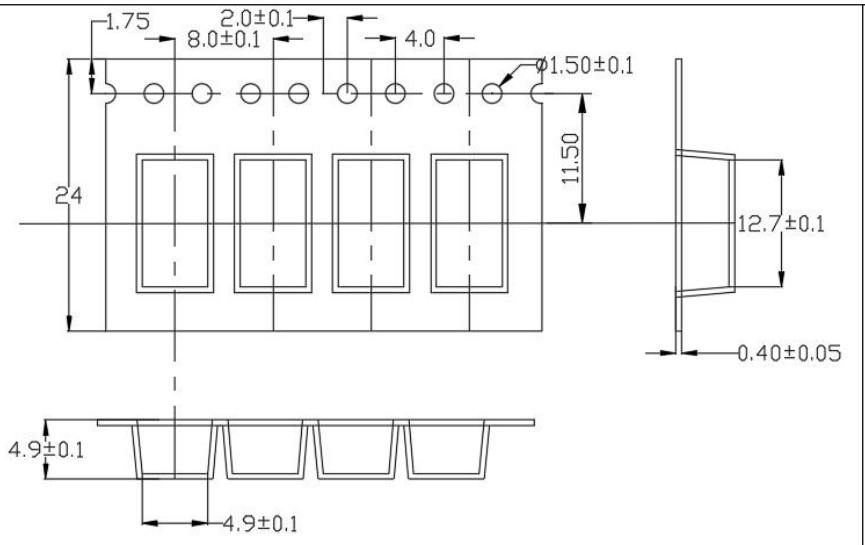
1.包装袋/盒上标签需明确产品料号，产品电压/电流及安规符号等信息;

The labels on the packaging bags/boxes should clearly indicate the product part number, product voltage/current and safety symbols, etc

2.包装材料均符合 ROHS/REACH/HF 的环保要求， 且包装材料不会和零件发生化学反应，造成不良;

The packing material conforms to ROHS/REACH/HF environmental protection request. And the packing materials will not have the chemical reaction with the components

3. 散装按客户要求/Bulk according to customer requirements



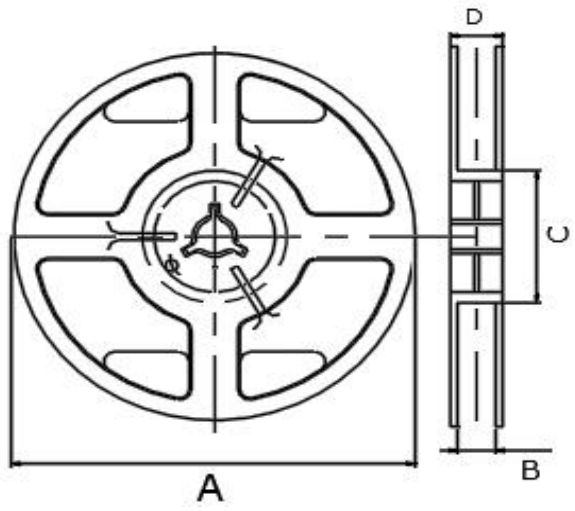
编带尺寸和数量:Tape sizq and quantity

每 1500PCS/卷;

Every 1000 PCS for 1 roll

每盒 1 卷

Each box 1 volume;



卷轴尺寸 Reel size

Unit:mm

A±2	B±1	C±2	D±1
325	24.5	100	29

11.其它/Other

1. 如果在使用中超出本规格书要求，须经双方协商确认；

If the requirements exceed those stipulated in this specification during the usage, it shall be confirmed through consultation between both parties.

2. 如果本规格书有不适当的地方，须经过双方协商由本公司修改；

If there is anything inappropriate in this specification, it shall be revised by our company after mutual consultation between both parties