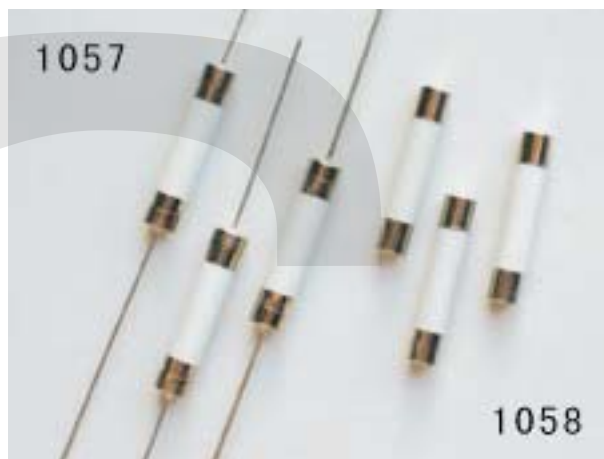
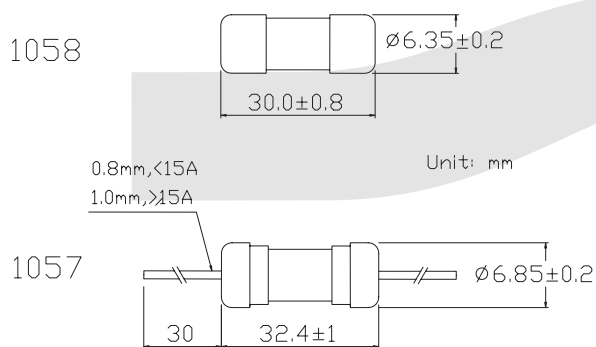


Φ6.35x32(30) Ceramic Tube Fuse Series

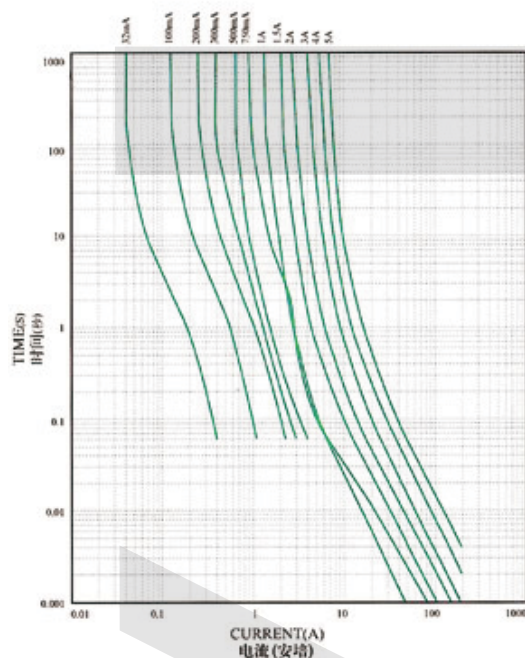
KLS5-1057/1058 $\Phi 6.35 \times 32(30)$ Ceramic Tube Fuse (Slow Blow) Series



ELECTRICAL CHARACTERISTICS

Rating	Blowing TIME
100%	4 hour Min
135%	1 hour Max
200%	5s ~ 120s

I-T CHARACTERISTICS CURVE
电流-时间曲线图



Product Model	Rated Current	Rated Volta	Product Model	Rated Current	Rated Volta
1058-0100	100mA	125V/250V	1057-0100	100mA	125V/250V
1058-0125	125mA	125V/250V	1057-0125	125mA	125V/250V
1058-0150	150mA	125V/250V	1057-0150	150mA	125V/250V
1058-0160	160mA	125V/250V	1057-0160	160mA	125V/250V
1058-0200	200mA	125V/250V	1057-0200	200mA	125V/250V
1058-0250	250mA	125V/250V	1057-0250	250mA	125V/250V
1058-0300	300mA	125V/250V	1057-0300	300mA	125V/250V
1058-0315	315mA	125V/250V	1057-0315	315mA	125V/250V
1058-0350	350mA	125V/250V	1057-0350	350mA	125V/250V
1058-0400	40mA	125V/250V	1057-0400	40mA	125V/250V
1058-0500	500mA	125V/250V	1057-0500	500mA	125V/250V
1058-0600	600mA	125V/250V	1057-0600	600mA	125V/250V
1058-0700	700mA	125V/250V	1057-0700	700mA	125V/250V
1058-0750	750mA	125V/250V	1057-0750	750mA	125V/250V
1058-0800	800mA	125V/250V	1057-0800	800mA	125V/250V
1058-1000	1A	125V/250V	1057-1000	1A	125V/250V
1058-1200	1.2	125V/250V	1057-1200	1.2	125V/250V
1058-1250	1.25A	125V/250V	1057-1250	1.25A	125V/250V
1058-1500	1.5A	125V/250V	1057-1500	1.5A	125V/250V
1058-1600	1.6A	125V/250V	1057-1600	1.6A	125V/250V
1058-1800	1.8A	125V/250V	1057-1800	1.8A	125V/250V
1058-2000	2A	125V/250V	1057-2000	2A	125V/250V
1058-2500	2.5A	125V/250V	1057-2500	2.5A	125V/250V
1058-3000	3A	125V/250V	1057-3000	3A	125V/250V
1058-3150	3.15A	125V/250V	1057-3150	3.15A	125V/250V
1058-3500	3.5	125V/250V	1057-3500	3.5	125V/250V
1058-4000	4A	125V/250V	1057-4000	4A	125V/250V
1058-5000	5A	125V/250V	1057-5000	5A	125V/250V
1058-6000	6A	125V/250V	1057-6000	6A	125V/250V
1058-6300	6.3A	125V/250V	1057-6300	6.3A	125V/250V
1058-7000	7A	125V/250V	1057-7000	7A	125V/250V
1058-8000	8A	125V/250V	1057-8000	8A	125V/250V
1058-10000	10A	125V/250V	1057-10000	10A	125V/250V
1058-12000	12A	125V/250V	1057-12000	12A	125V/250V
1058-15000	15A	125V/250V	1057-15000	15A	125V/250V
1058-20000	20A	125V/250V	1057-20000	20A	125V/250V
1058-25000	25A	125V/250V	1057-25000	25A	125V/250V
1058-30000	30A	125V/250V	1057-30000	30A	125V/250V

ORDER INFORMATION

Product NO.: KLS5-1057-XXXX

Rated Carrent

Lead Type:1057=With Lead

1058=No Lead

Part Number

Product Specification

Number: L-KLS5-1058-xxxxx

Name: Tube Fuses (Glass
tube & Ceramic tube)

Date: 2026-09-16

Process Change: V2.0 (Other Change)

Customer Signature:



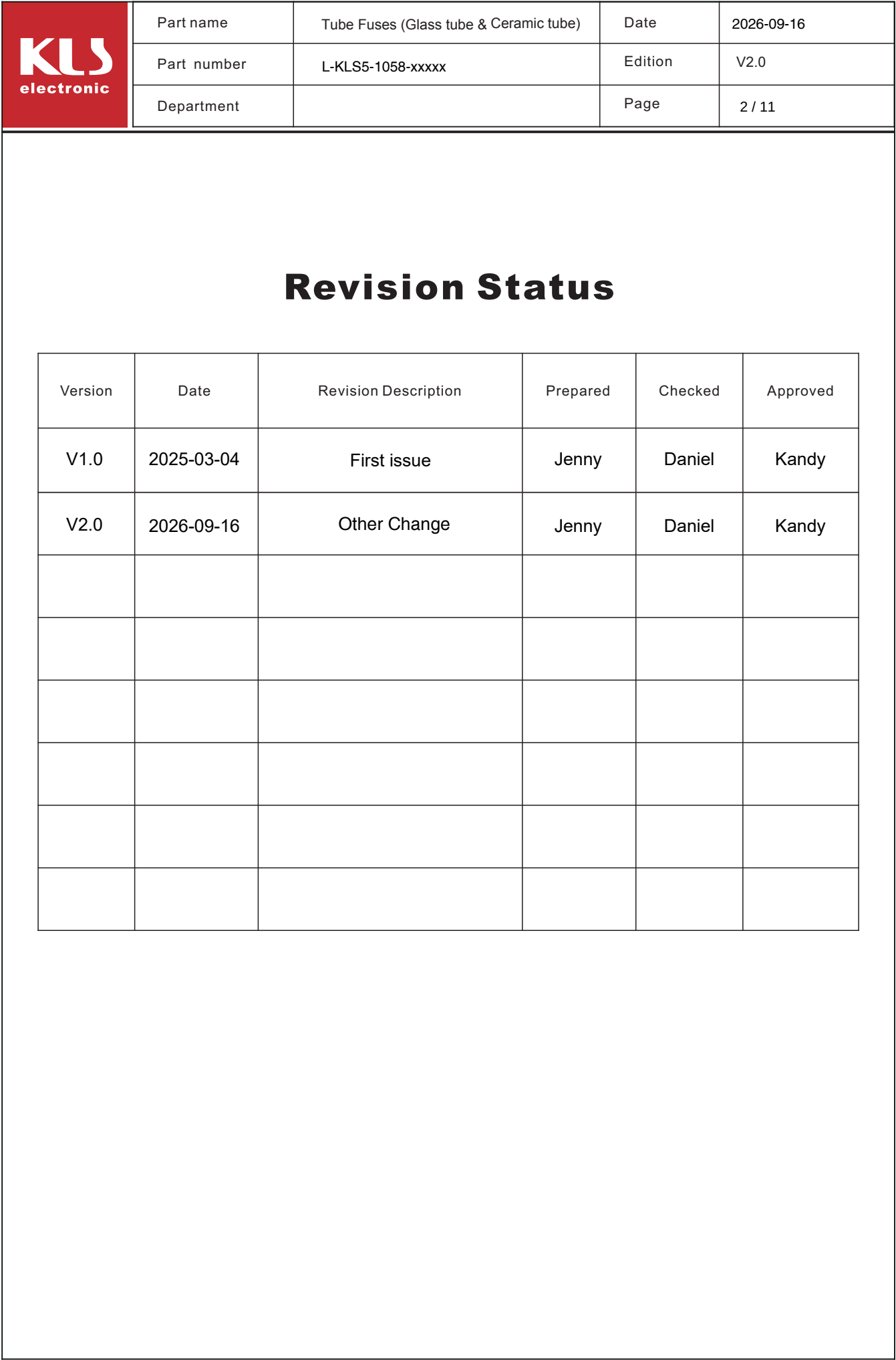
NINGBO KLS ELECTRONIC CO; LTD

Tel : 0086-574-86828566

Fax : 0086-574-86824882

**ADD : NO. 8-1, RONGXIA RD. XIAPU SHANQIAN
INDUSTRIAL ZONE BEILUN NINGBO ZHEJIANG.**

Compile	Check	Review	Approval
Jenny	Jack.C		



	Part name	Tube Fuses (Glass tube & Ceramic tube)	Date	2026-09-16
	Part number	L-KLS5-1058-xxxxx	Edition	V2.0
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1. 适用范围/SCOPE

本规格书适用于公司生产并获得UL安全标准认证的1058（慢断/延时）系列的小型保险丝管。 This specification defines the technical requirements of miniature fuse type 1058 (slow blowing/time lag) series , which are approved by UL&TUV.

产品部件号为: 型号 额定电流
Construction of part no.: type rated current
例如/ Example: 1058 0100

产品部件号/PART NUMBER

产品部件号 PART NUMBER	额定电流 RATED CURRENT	额定电压 RATED VOLTAGE	产品部件号 PART NUMBER	额定电流 RATED CURRENT	额定电压 RATED VOLTAGE
1058-1000	1A	500V/400V/ 350V/300V/ 250V AC	1058-8000	8A	500V/400V/ 350V/300V/ 250V AC
1058-1250	1.25A		1058-10000	10A	
1058-1600	1.6A		1058-12500	12.5A	
1058-2000	2A		1058-15000	15A	
1058-2500	2.5A		1058-16000	16A	
1058-3150	3.15A		1058-20000	20A	
1058-4000	4A		1058-25000	25A	
1058-5000	5A		1058-30000	30A	
1058-6300	6.3A		1058-35000	35A	
/	/		1058-40000	40A	
			/	/	

2. 相关标准/APPLICABLE STANDARDS

2.1 1058系列产品适用的相关标准是UL248-1、UL248-14、GB/T9364.2、GB/T9364.7、IEC60127-2、IEC60127-7。

Applicable standards for 1058 series UL248-1,
UL248-14,GB/T9364.2,GB/T9364.7,IEC60127-2,IEC60127-7.

2.2认证情况/APPROVED DETAILS

认证 Certification	证书编号 Certificate No	认证范围 Certification Scope	额定电压 Rated Voltage
	E324xxx	1A-40A	500V/400V/350V/300V/250V AC
	J 5061xxxx	1A-16A	300V/250V AC
	J 5061xxxx	20A/25A/30A	300V/250V AC
	CQC24012xxxxxx	1A/16A/20A	300V AC

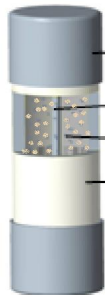
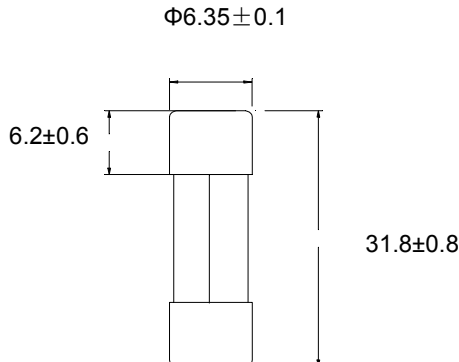
Part name	Tube Fuses (Glass tube & Ceramic tube)	Date	2026-09-16
Part number	L-KLS5-1058-xxxxx	Edition	V2.0
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3. 公司地址/ADDRESS

浙江省宁波市北仑区霞浦山前荣霞路8-1号。

8-1 Rongxia Road, Xiapu Mountain, Beilun District, Ningbo City, Zhejiang Province.

4. 结构尺寸/ STRUCTURE AND DIMENSION

A: 结构图/STRUCTURE	B: 尺寸图 / DIMENSION (mm)
 (1) 铜帽 / Cap (2) 可熔体 / Element (3) 填充物/Filler (4) 管体 / Tube	 $\Phi 6.35 \pm 0.1$ 6.2 ± 0.6 31.8 ± 0.8

编号 No.	品名 PART	材料 MATERIAL
1	铜帽 / Cap	黄铜镀镍 / Nickel Plated Brass
2	可熔体 / Element	金属丝 / Metal Wire
3	填充物/Filler	石英砂/Quartz sand
4	管体 / Tube	陶瓷管/ Ceramic Tube

4.1 陶瓷管/CERAMIC TUBE

陶瓷管无破裂、缺损或污染等现象。

The tube shall have no defects such as crack, injury and contamination.

4.2 铜帽/CAP

铜帽应焊接牢固，以保证在未损坏熔断体时，铜帽不能被卸脱。样品在15℃-35℃水中浸24小时取出后，在每个端帽上，均匀地施加拉力至10N，保持1分钟，铜帽不应脱落。

Cap should be firmly attached so that it is not possible to remove them without damaging the fuse itself. The samples are immersed in water for 24 hours at a temperature between 15℃ and 35℃. After remove from the water, an axial pull steadily increasing to 5N is applied to each cap for 1 minute.

4.3 焊点/SOLDERING JOINT

焊接铜帽端时，铜帽外表面不能有残留的助焊剂、焊锡、可熔体等异物。

Soldering joint in end cap shall not be melted during normal operation and shall not have solder chips on tube, element in view and outer surface of caps.

5. 机械特性/MECHANICAL PERFORMANCES

保险丝应能承受下列三项试验。

Fuse shall withstand following three testing.

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5.1 扭力试验/Rotational Strength

固定保险丝的一端铜帽，然后在另一端铜帽上顺时针和逆时针方向上顺序施加10N·mm力矩，两端铜帽不应松动，管体也不应破碎。

When one end cap of the specimen is fixed and then the torque 10N·mm is applied to the other end cap clockwise and counterclockwise, no looseness of end caps at both ends or damage of fuse-tube shall occur.

5.2 拉力试验/Tensile Strength

固定保险丝的一端铜帽，然后在另一端铜帽上，沿水平轴方向施加10N的拉力，两端铜帽不应松动且管体不应破碎。

When one end cap of the specimen is fixed and then the tensile force 5N is applied to the other end cap in a direction to separate the end caps, no looseness of end caps or damage of fuse-tube shall occur.

5.3 管体强度试验/Strength of Fuse-tube

两端铜帽固定好后，在陶瓷管的中心位置施加15N的压力，管体不应破碎。

When middle parts of end caps at both ends of the specimen are supported and then the force 15N is applied to the middle part of the fuse-tube, no damage of the fuse-tube shall occur.

6. 电气特性/ELECTRICAL PERFORMANCES

6.1 测试条件/TEST CONDITION

全部测试条件都应在环境温度24℃±3℃条件下进行，在此期间温度变化不允许达到+5℃和到极限范围。

All electrical tests are conducted at an ambient temperature of 24±3℃. The ambient temperature is not allowed to vary more than 5℃ during the test, and must be within these limits.

6.2 分断能力/INTERRUPTING CAPACITY

安规认证 /Safety Certification	分断能力/Breaking capacity
cUR _{US}	1000 amperes at 250V AC
	500 amperes at 500V/400V/350V/300V AC
TUV	1500A amperes at 500V/400V/350V/300V/250V AC
CQC	1500A amperes at 300V AC

6.3 预飞弧时间-电流特性/PRE-ARCING TIME-CURRENT CHARACTERISTICS

当保险丝通以下表规定的电流时，其熔断时间必须符合下表的要求，且铜帽不能飞脱、管体不应破裂、损坏。

When the current in the following table is passing the fuse, its opening time must be in accordance with the requirements in the following table, that is, the pre-arcing time. Moreover, neither damage of the fuse-tube nor shattering of the cap shall occur.

Rated Current	1.25I _n	1.5I _n	2.1I _n	2.75I _n		4I _n		10I _n	
	Min.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1A-16A	/	60min.	30min.	/	80sec.	150ms	3sec.	20ms	300ms
20A—30A	60min.	/	30 min	750ms	80sec.	150ms	5sec.	10ms	300ms
40A	/	/	30 min	/	/	/	/	10ms	300ms

6.4 电压降/Voltage drop

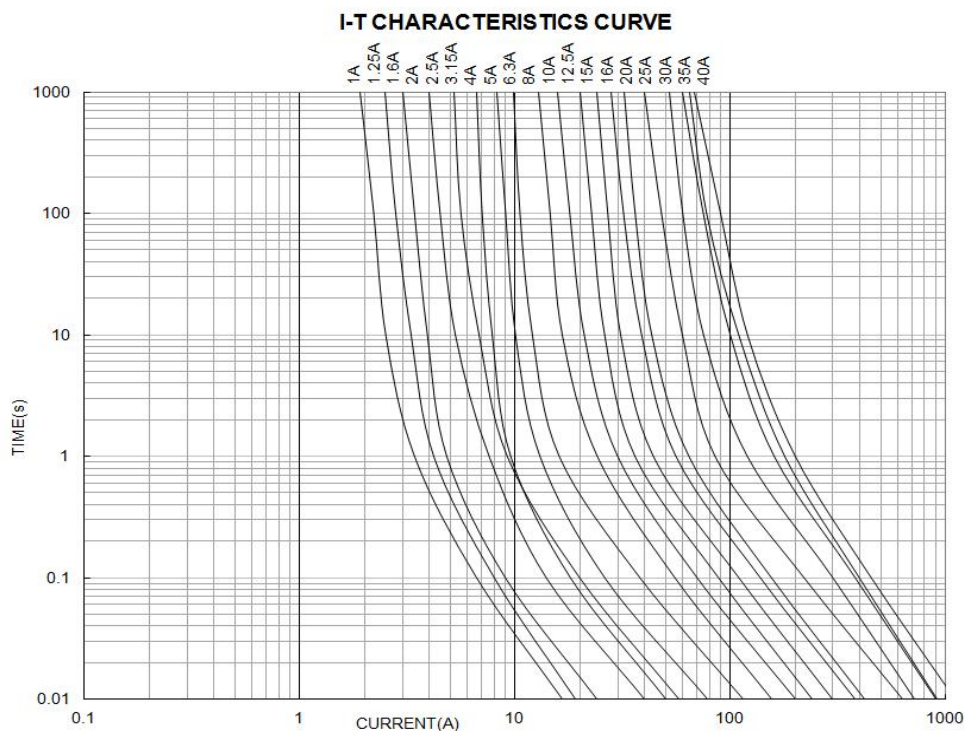
熔断体在额定电流条件下,其两端的电压降不应超过下表规定的最大值。

The voltage drop across the fuse-link at their rated current shall not exceed the maximum values is in follows:

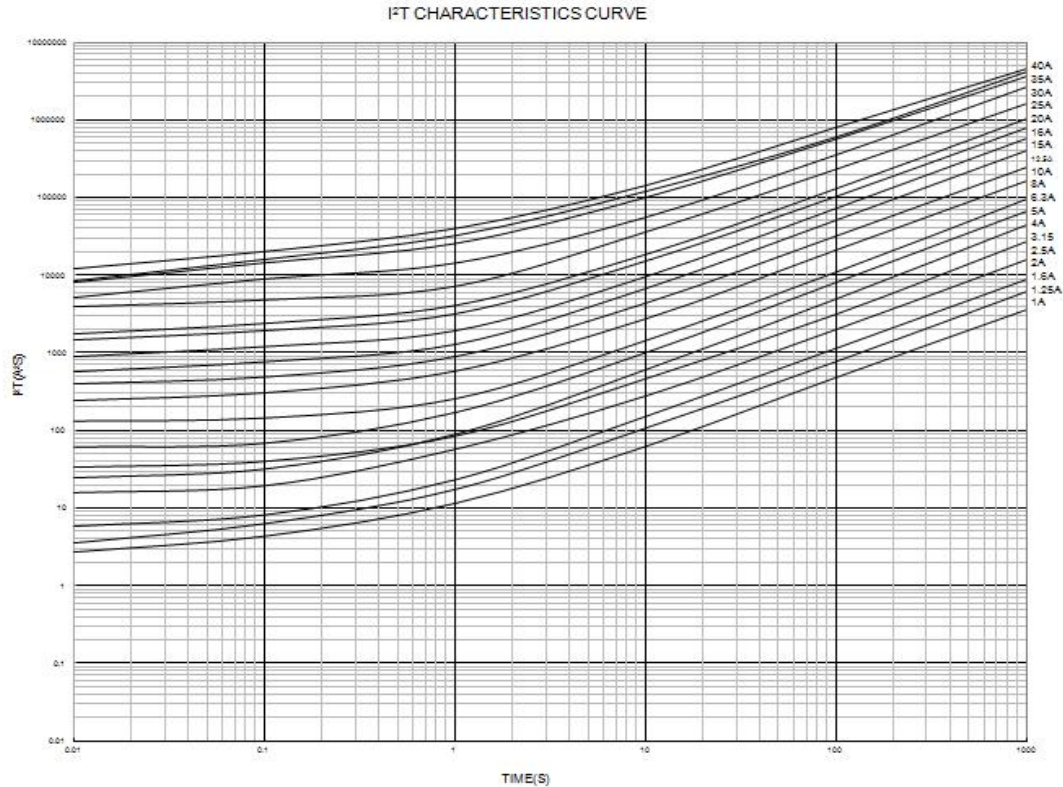
额定电流 Rated current(A)	额定电压 Rated Voltage(V)	最大电压降 Maximum Voltage drop(mV)	最大维持功耗 Maximum sustained Power dissipation (mW)	I ² T参考值±20% Reference (A ² Sec) ±20%
1A	500V 400V 350V 300V 250V AC	600	1600	2.68
1.25A		450	2500	3.61
1.6A		400	2500	5.94
2A		350	2500	16.3
2.5A		300	4000	34.5
3.15A		300	4000	25.5
4A		250	4000	60.2
5A		250	4000	129.6
6.3A		200	4000	232.9
8A		180	4000	420.0
10A		150	4000	626.9
12.5A		150	4000	990.0
15A		150	4000	1444
16A		150	4000	1764
20A		100	4000	4000
25A		100	4000	5184
30A		100	4000	8100
35A		100	4000	8500
40A		100	4000	12000

Note:I²T values stated for 8ms--10 ms opening time.

6.5平均时间电流(I-T)曲线 (供参考) /AVERAGE TIME CURRENT (I-T) CURVES (FOR REFERENCE ONLY)



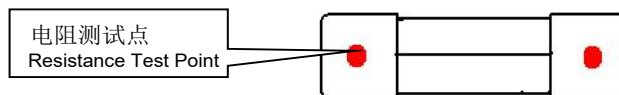
6.6 I²t 特性曲线（供参考）/I²T CHARACTERISTICS CURVE（FOR REFERENCE ONLY）



6.7 电阻测试/COLD RESISTANCE TEST

环境温度为: $25 \pm 2^\circ\text{C}$ ，测试电流不大于保险丝额定电流的10%。

Input 10% of fuse rated current to fuse for cold resistance test at surrounding temperature of $25 \pm 2^\circ\text{C}$.

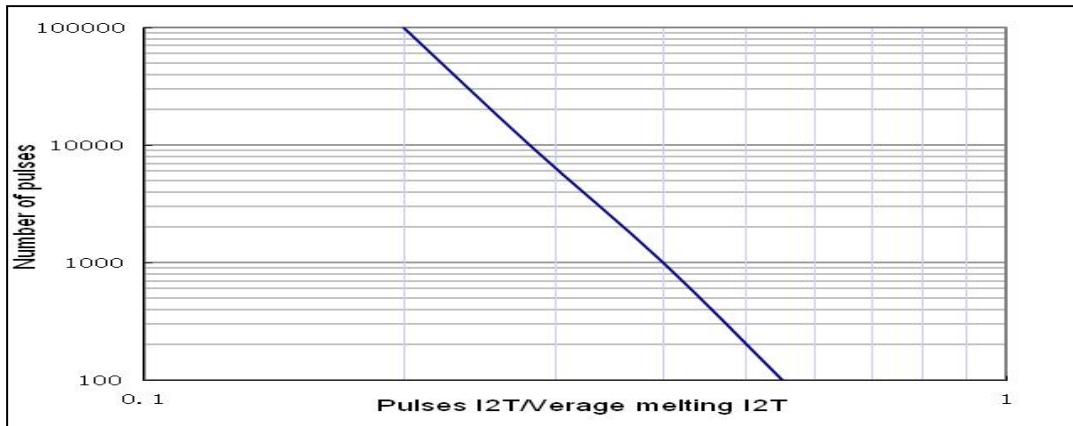


6.8 脉冲/PULSE

脉冲产生热循环，从而产生机械疲劳影响保险丝管寿命。设计时应使脉冲I²T远远小于保险丝管标称熔化热能I²T。保险丝管寿命（可承受的脉冲循环次数）与U（U=脉冲I²T值与保险丝管I²T值之比率）的关系参照下表。

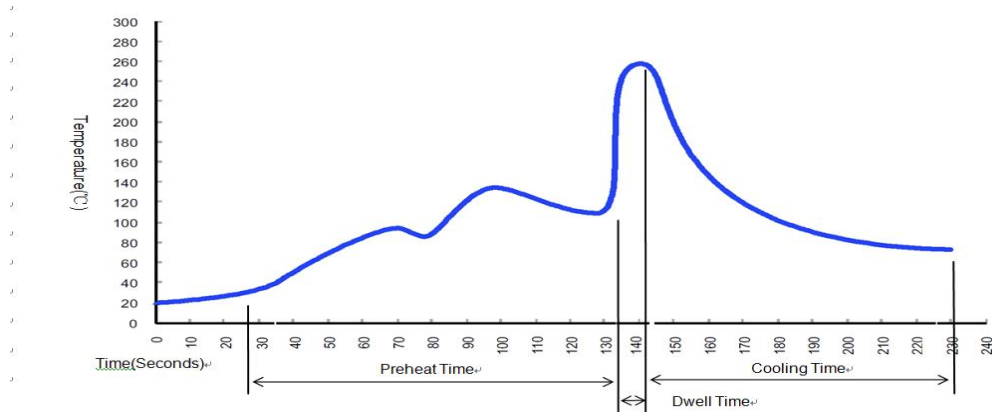
Pulse can produce thermal cycling and mechanic fatigue which could affect the life of fuse. In design the selected fuse should have a I²T value much greater than the I²T value of pulse. Refer to follow table showing the relationship between the life of fuse (the endurable times of pulse shock) and U (ratio between pulse I²T value and fuse I²T value).

可承受脉冲次数/Endurable times of pulse shock	U（比率）/U(ratio)
100, 000次/100,000times	22%
10, 000次/10,000times	29%
1, 000次/1,000times	38%
100次/100times	48%



6.9 焊接参数/ SOLDERING PARAMETERS

- 1) 波峰焊接/ Wave soldering: 260℃, 10sec. Max.
- 2) 手工焊接/ Manual soldering: 300℃, 3sec. Max.



7. 产品标志/MARKING

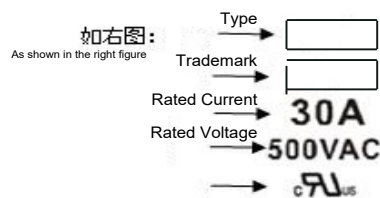
7.1 保险丝上的标志应易于看清。

The relevant markings shall be marked on the caps of the fuse and shall be easily visible

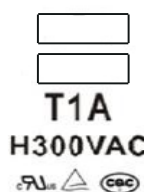
7.2 每个保险丝应标有下列标记:

The markings for every fuse shall be prescribed as below according to the types:

- 型号名称/Type
- 商标/Trademark
- 安全认证标志/Safety approval logo
- 特性符号/Characteristic Symbol (针对 TUV 认证:1A—16A 产品)
- 额定电流 Rated Current
- 分断能力符号/Breaking Capacity Symbol (针对 TUV 认证:1A—16A 产品)
- 额定电压/Rated Voltage



图一 Fig.1



图二 Fig.2

Part name	Tube Fuses (Glass tube & Ceramic tube)	Date	2026-09-16
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8. 包装要求/ PACKING DETAILS

8.1 包装方式/ PACKING MODE A

8.1.1 长引线/ Long lead(24-50mm)

8.1.1.1 内盒参考尺寸Inner Box Size:长×宽×高length × width × height=150×130×80mm. 8.1.1.2

外箱参考尺寸External Carton Size: 长×宽×高length × width × height

8.1.1.3 包装要求Packing Details: 50个/袋; 5袋/盒; 10盒/箱。

50EA/ Bag; 5 Bags / Box; 10 Boxes / Exported Carton.

8.1.2 短引线/ Short Lead(3.0—5.0mm)

8.1.2.1内盒参考尺寸Inner Box Size: 长×宽×高length × width × height=150×130×80mm. 8.1.2.2

外箱参考尺寸External Carton Size: 长×宽×高length × width × height

8.1.2.3 包装要求Packing Details: 100个/袋; 5袋/盒; 10 盒/箱。

100EA/ Bag; 5Bags / Box; 10 Boxes / Exported Carton.

8.1.3套管产品短引线/casing Short Lead(3.0—5.0mm)

8.1.3.1内盒参考尺寸Inner Box Size: 长×宽×高length × width × height=150×130×80mm. 8.1.3.2

外箱参考尺寸External Carton Size: 长×宽×高length × width × height

8.1.3.3 包装要求Packing Details: 200个/袋; 3袋/盒; 10 盒/箱。

200EA/ Bag; 3 Bags / Box; 10 Boxes / Exported Carton.

8.2 所有产品的包装应能达到防潮、抗振的作用，以防在运输或贮存过程中产品受潮或损坏

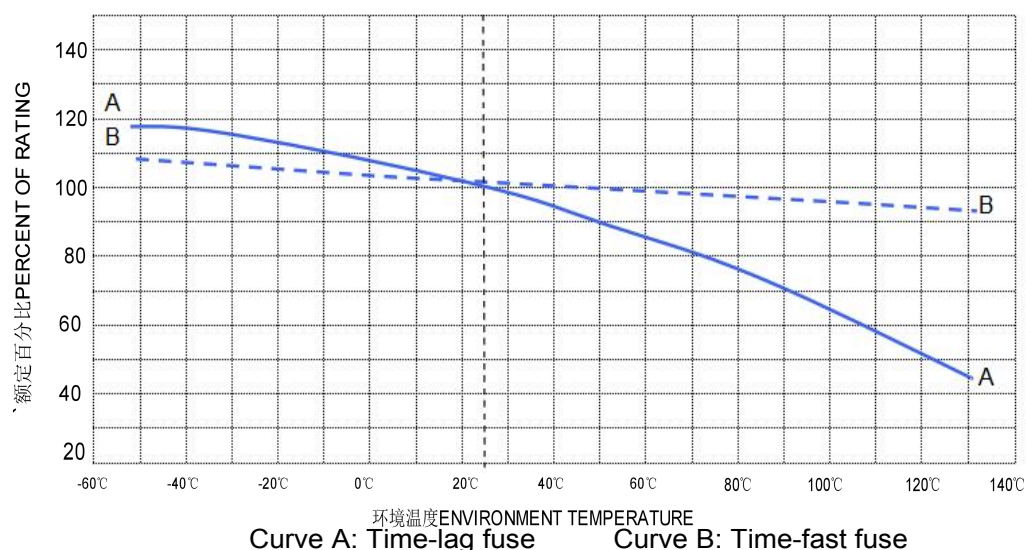
Packing should meet the requirements of anti-moisture and anti-shaking so that the products will not absorb moisture or be damaged during transportation or storage.

9. 环境参数/ENVIRONMENTAL PARAMETERS

9.1 工作温度/Operating Temperature: -55℃～125℃.

保险丝管的电流承载能力测试是在环境温度25℃条件下进行的，而保险丝管的电流承载能力是受环境温度影响的。环境温度越高，保险丝管的寿命越短，承载能力就越低，所以选用保险丝管时应考虑保险丝管周边的环境温度，环境温度对各类保险丝管承载能力的影响如下图所示：

The current carrying capacity tests of a fuse are performed at 25℃ and will be effected by changes with the ambient temperature. The higher the ambient temperature, the shorter fuse life will be, and the lower the current carrying capacity will be. So the ambient temperature shall be considered for proper fuse selection. Refer to the following chart showing the effect on the current carrying capacity of all kinds of fuse..



9.2在温度+10~60℃、相对湿度≤75%的密闭条件下可存放3年。

Under airtight in temperature +10~60℃ `relative humidity ≤75% can store 3 years.

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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.

10. 规格书有效性The specification for validity

10.1 修订协议 Agreement of revision

规格书因需要修订时，须由两公司协议后执行。

Specifications for need revision, must be performed after both companies agreement.

10.2 有效性 Validity

本承认书提出后，于贵司承认期间，可暂时使用，若经过1个月无异议或无签回，则视同有效文件。

The specifications can be used temporarily during the period of approval .If you have no any objection or not return one hard copy to us within one month.this specification will be operated as a valid document .