


 Hollyland (China) Electronics Technology Corporation Ltd. Hollyland (XiaMen) Technology Corporation Ltd.	PRODUCT SPECIFICATION	ISSUED DATE:	2019/10/31
	50T RoHS SERIES	REV. NO.:	A07
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制定 PREPARED BY	 研发部 2019-10-31 李湖明	审核 CHECKED BY	 研发部 2019-10-31 胡兴华	批准 APPROVED BY	 副总经理 2019-10-31 赖文辉
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1 适用范围/ SCOPE

本规格书适用于公司按照 IEC 60127 标准生产的 50T RoHS 系列 HOLLY® 商标的小型保险丝管。

This specification defines the technical requirements of miniature fuse type 50T RoHS series with HOLLY® brand, which are according to IEC 60127.

产品部件号为: 型号 额定电流 额定电压
 Construction of part no.: type rated current rated voltage
 例如/ Example: 50T 020 H

* 额定电压/ Rated Voltage: H - 250V

产品部件号/ PART NUMBER

产品部件号 PART NUMBER	型号规格 MODEL DETAIL	产品部件号 PART NUMBER	型号规格 MODEL DETAIL
50T-0100H	50T T100mAL 250V	50T-020H	50T T2AL 250V
50T-0125H	50T T125mAL 250V	50T-025H	50T T2.5AL 250V
50T-0160H	50T T160mAL 250V	50T-032H	50T T3.15AL 250V
50T-0200H	50T T200mAL 250V	50T-040H	50T T4AL 250V
50T-0250H	50T T250mAL 250V	50T-050H	50T T5AL 250V
50T-0315H	50T T315mAL 250V	50T-063H	50T T6.3AL 250V
50T-0400H	50T T400mAL 250V	50T-080H	50T T8AL 250V
50T-0500H	50T T500mAL 250V	50T-100H	50T T10AL 250V
50T-0630H	50T T630mAL 250V	50T-120H	50T T12AL 250V
50T-0800H	50T T800mAL 250V	50T-125H	50T T12.5AL 250V
50T-010H	50T T1AL 250V	50T-150H	50T T15AL 250V
50T-013H	50T T1.25AL 250V	50T-160H	50T T16AL 250V
50T-016H	50T T1.6AL 250V	50T-200H	50T T20AL 250V

型号规格: 型号 特性符号 额定电流 分断能力符号 额定电压
 MODEL DETAIL: Type Characteristic Symbol Rated Current Breaking Capacity Symbol Rated Voltage
 例如/ Example: 50T I 2A L 250V

*特性符号/ Characteristic Symbol: T – 慢断型/ Time-Lag, 分断能力符号/ Breaking Capacity Symbol: L – 低分断能力/ Low Breaking Capacity.


2 相关标准/ APPLICABLE STANDARDS

2.1 50T RoHS 系列产品适用的相关标准是 IEC 60127 和 GB 9364。

Applicable standards for 50T RoHS series are IEC 60127 and GB 9364.

2.2 认证情况/ APPROVED DETAILS

额定电压 RATED VOLTAGE	SEMKO		VDE		BSI		IMQ	
	认证范围 APPROVED RANGE	认证号码 CERT. NO.	认证范围 APPROVED RANGE	认证号码 CERT.NO.	认证范围 APPROVED RANGE	认证号码 CERT. NO.	认证范围 APPROVED RANGE	认证号码 CERT. NO.
250V	125mA~6.3A	1716101	125mA~10A	40014460	125mA~6.3A	KM 52652	125mA~6.3A	E1475
	8A,10A	1909952	12.5A, 16A	40025976				
	12.5A,16A	1909953						
额定电压 RATED VOLTAGE	UR/CUR		CSA _A		CQC			
	认证范围 APPROVED RANGE	认证号码 CERT. NO.	认证范围 APPROVED RANGE	认证号码 CERT. NO.	认证范围 APPROVED RANGE.		认证号码 CERT. NO	
250V	125mA~15A	E156471	125mA~6.3A	LR101178	8A, 10A, 12.5A, 16A		CQC05012014537	
额定电压 RATED VOLTAGE	CCC		KC		PSE			
	认证范围 APPROVED RANGE	认证号码 CERT. NO.	认证范围 APPROVED RANGE	认证号码 CERT. NO.	认证范围 APPROVED RANGE	认证号码 CERT. NO.		
250V	125mA~6.3A	2005010207153273	125mA~400mA	SU05008-3011D	1A~5A	JET 2489-31003-2004		
			500mA~1A	SU05008-3012D	5.1A~10A	JET 2489-31003-2019		
			1.25A~6.3A	SU05008-3013D	10.1A~15A	JET 2489-31003-1019		

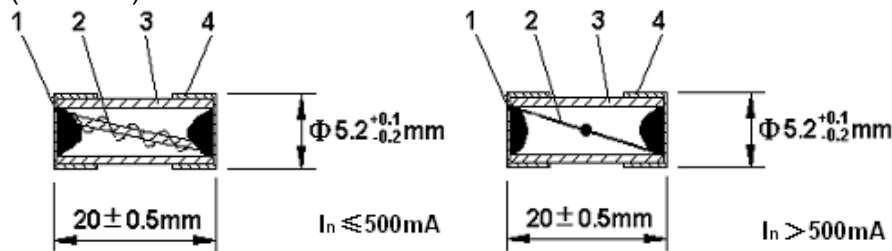
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3 公司地址/ ADDRESS

中国福建省厦门市翔安区舫山东二路 829 号
829 Fangshan East 2nd Road, Xiang'an, Xiamen, China.

4 构造图/ CONSTRUCTION FIG. & DIMENSION

4.1 DIMENSION (Unit: mm)



编号 No.	品名 PART	材料名 MATERIAL MODEL	备注 NOTE
1	焊锡 Solder	无铅焊锡/ Pb Free	/
2	可熔体/ Element	玻璃纤维 + 金属丝/ Glass Fiber + Metal Wire	额定电流 $I_n \leq 500\text{mA}$
		一个锡球+金属丝/ One Solder Blob+ Metal Wire	额定电流 $I_n > 500\text{mA}$
3	管体/ Tube	玻璃管/ Glass Tube	/
4	铜帽/ Cap	黄铜/ Brass	镀镍/ Nickel Plated

4.2 玻璃管/ GLASS TUBE

玻璃管无破裂、缺损或污染等现象，且须透明易辨其内部的可熔体。

Tube shall be transparent as to be easily distinguished fusing element with naked eyes and the tube shall have no defects such as crack, injury and contamination.

4.3 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 10N is applied to each cap for 1 minute.

4.4 焊点/ SOLDERING JOINT

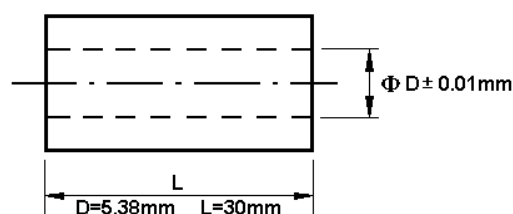
焊接铜帽端时,管内和铜帽外表面不能有残留的助焊剂、焊锡等异物。

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.

4.5 准直度/ ALIGNMENT

保险丝管的全长必须以保险丝自身的重量全部通过准直度卡规。其具体图形如下。

The entire length of the fuse shall pass through the gauge by the fuses own weight. The construction of gauge is as follows.




5 电气特性/ ELECTRICAL PERFORMANCES

5.1 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.

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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 (W)
100mA	250	2,500	1.6
125mA		2,000	
160mA		1,900	
200mA		1,500	
250mA		1,300	
315mA		1,100	
400mA		1,000	
500mA		900	
630mA		300	
800mA		250	
1A		150	
1.25A		150	
1.6A		150	
2A		150	
2.5A		120	
3.15A		100	
4A		100	
5A		100	
6.3A		100	
8A			100
10A	100		
12A	80		
12.5A	80		
15A	80		
16A		80	6
20A		80	

5.2 预飞弧时间电流-特性/ PRE-ARCING TIME-CURRENT CHARACTERISTICS

Rated Current	2.1I _n	2.75I _n		4I _n		10I _n	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.
>32mA-100mA	2min.	200ms	10sec.	40ms	3sec.	10ms	300ms
>100mA-10A	2min.	600ms	10sec.	150ms	3sec.	20ms	300ms
>10A	5min	600ms	15sec	150ms	5sec	20ms	400ms

5.3 分断能力/ BREAKING CAPACITY

额定分断能力为 35A 或 10I_n(A.C.)，取其中较大者。

Rated breaking capacity is 35A or 10I_n whichever is greater, tested with A.C..

5.4 耐久性试验/ ENDURANCE TEST

耐久性试验过程下。/ The process of endurance test is as follows.

A 对熔断体通过 1.2 倍的额定电流 1 小时，然后切断电流 15 分钟，重复此循环 100 次。/ A current 1.2I_n is passed through the fuse-link for a period of 1hour. The current is then switched off for a period of 15 minutes. The cycle is repeated 100 times.

B 然后对熔断体通以 1.5 倍额定电流 1 小时(I_n≤6.3A)或 0.5 小时(I_n>6.3A)。/ A current 1.5I_n is then passed through the fuse-link for 1hour(I_n≤6.3A) or 0.5hour(I_n>6.3A).

C 测量熔断体两端的电压降。试验后，熔断体两端的电压降的增大量不大于试验前测得值的 10%。/ Finally, the voltage drop across the fuse-link is measured. The voltage drop across the fuse-link after the test shall not have increased by more than 10% of the Value measured before the test.

D 试验后,标记仍应清晰可辨, 而且诸如端帽上的焊点不应出现任何明显的劣变。/ After the test, the marking shall still be legible and soldered joints on end caps, for example, shall not show and appreciable deterioration.



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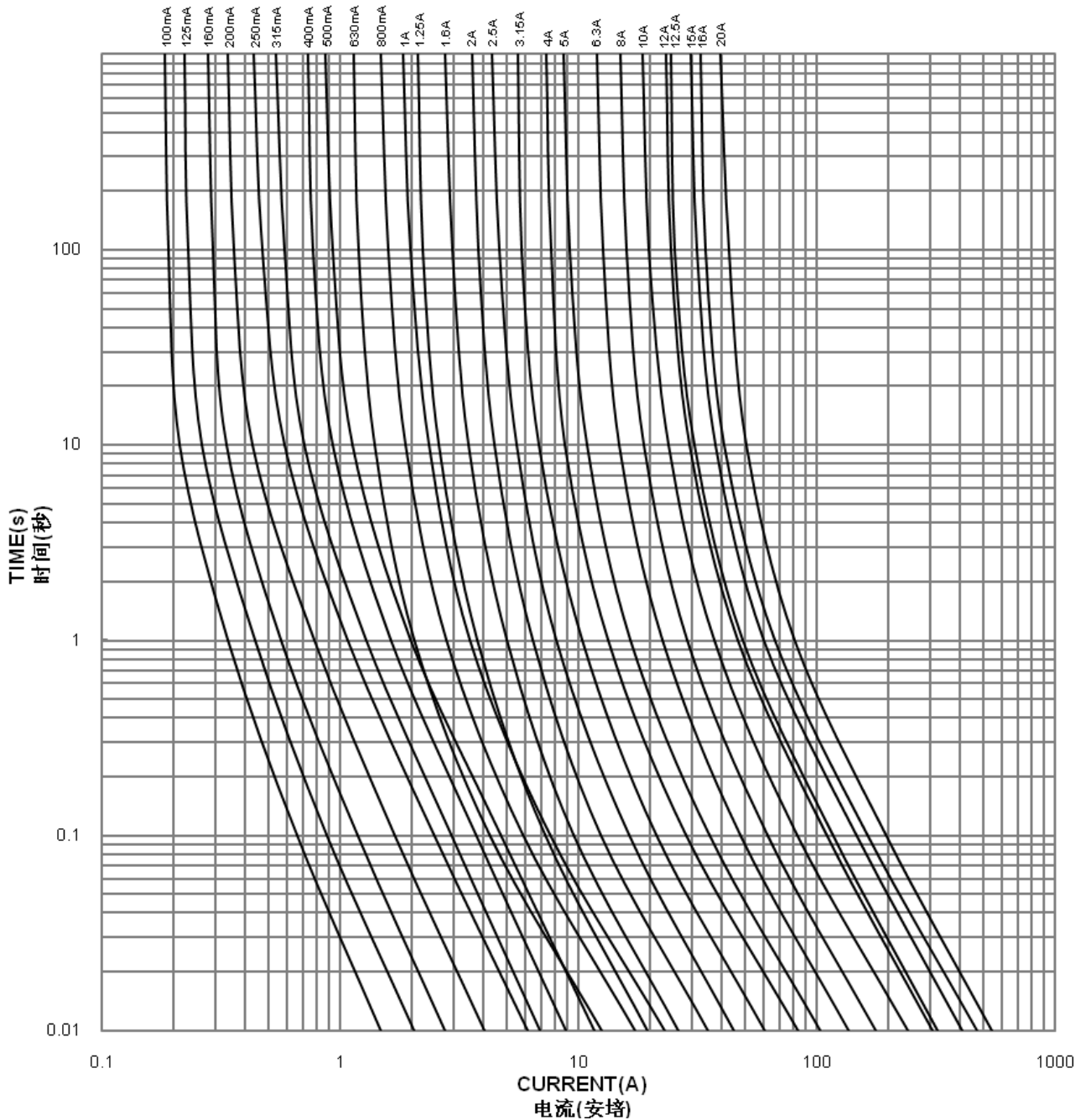
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5.5 平均 I-T 特性曲线图(仅供参考)/ THE AVERAGE I-T CHARACTERISTICS CURVE(FOR REFERENCE ONLY)

50T RoHS 平均 I-T 曲线图(仅供参考)
50T RoHS AVERAGE I-T CHARACTERISTICS CURVE(FOR REFERENCE ONLY)





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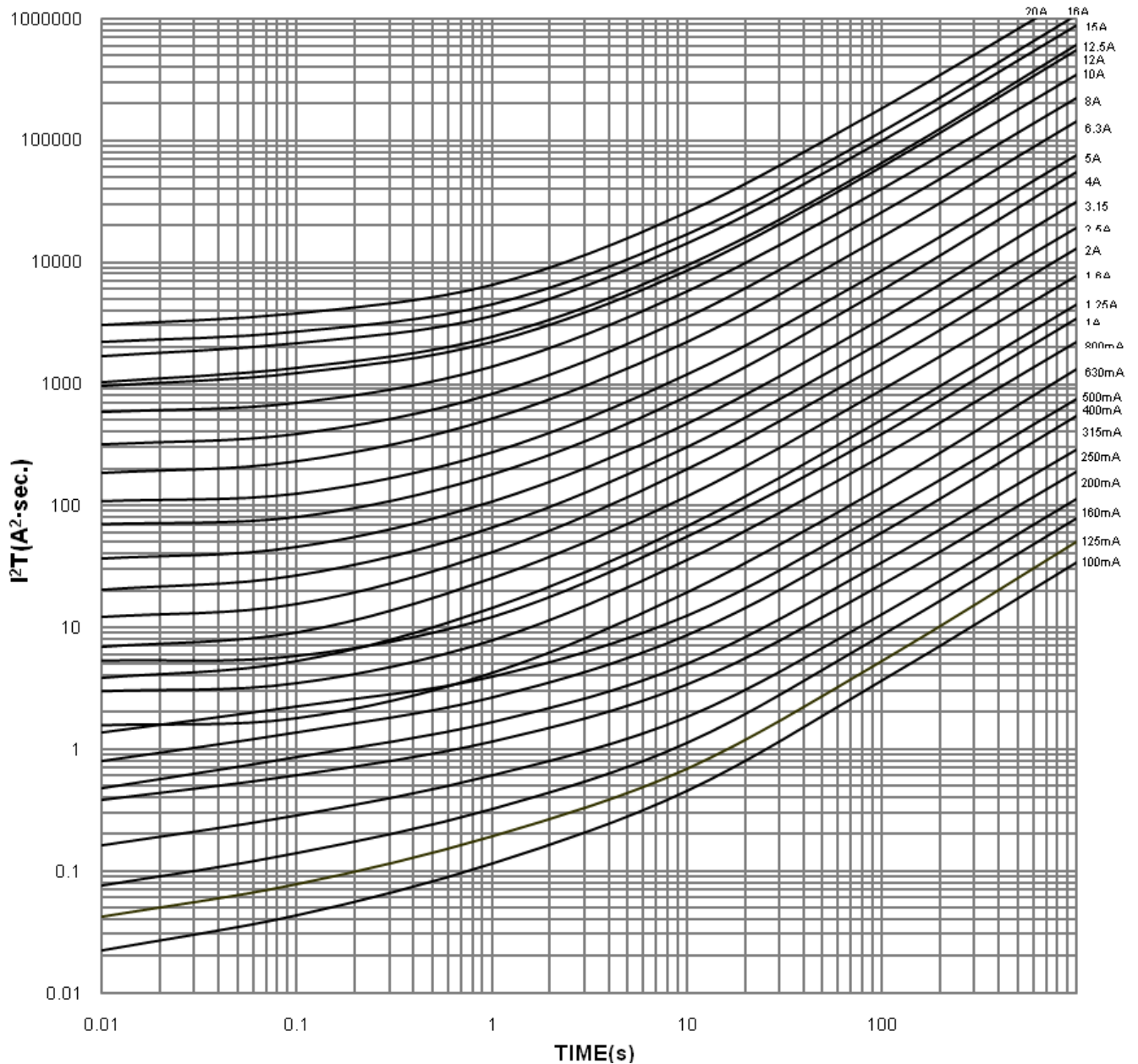
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5.6 平均 I²T-T 特性曲线图(仅供参考)/ THE AVERAGE I²T-T CHARACTERISTICS CURVE(FOR REFERENCE ONLY)

50T RoHS Average I²T-T Characteristics Curve(For Reference Only)



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5.7 平均 I²T 值(供参考)/ AVERAGE I²T VALUE(FOR REFERENCE ONLY)

额定电流 Rated Current	平均 I ² T 值/ Average I ² T Value(A ² · sec.)	额定电流 Rated Current	平均 I ² T 值/ Average I ² T Value(A ² · sec.)	额定电流 Rated Current	平均 I ² T 值/ Average I ² T Value(A ² · sec.)
100mA	0.0223	800mA	3.004	6.3A	187.8
125mA	0.0417	1A	5.309	8A	314.9
160mA	0.0767	1.25A	3.879	10A	583.4
200mA	0.1628	1.6A	6.890	12A	958.9
250mA	0.3808	2A	12.33	12.5A	1045
315mA	0.4833	2.5A	20.63	15A	1668
400mA	0.7968	3.15A	36.91	16A	2231
500mA	1.360	4A	70.56	20A	3010
630mA	1.583	5A	108.7		/

5.8 电阻测试/ COLD RESISTANCE TEST

环境温度为 25±2℃，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±2℃.


6 产品标志/ MARKING

6.1 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.

6.2 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.

- 1) 安全认证标志/ Safety approval logo: 
- 2) 型号名称/ Type: 50T(只有 CCC 认证时不需打 50T 标记/ 50T is not marked on the cap for the fuse which only have CCC approval.)
- 3) 商标/ Trademark: 
- 4) 特性符号/ Characteristic Symbol: T
- 5) 额定电流/ Rated Current
- 6) 分断能力符号/ Breaking Capacity Symbol: L
- 7) 额定电压/ Rated Voltage

注: 1)、2) 和 3)应标注在保险丝管一端铜帽的侧面。

Note: 1), 2) and 3) should be marked on the one side cap of the fuse.

4)、5)、6)和 7)应标注在保险丝管另一端铜帽的侧面。

4), 5), 6) and 7) should be marked on the other side cap of the fuse.

7 包装要求/ PACKING DETAILS

7.1 外箱包装方式/ EXTERNAL CARTON PACKING

7.1.1 包装方式 A/ PACKING MODE A

7.1.1.1 参考尺寸: 长×宽×高=320×240×165mm。

Reference Dimension: Length×Width×Height=320×240×165mm.

7.1.1.2 包装细节: 200EA/小塑料袋; 25 小塑料袋/大塑料袋; 2 大塑料袋/每箱。

Packing Details: 200EA/ little plastic-bag; 25 little plastic-bags/ big plastic-bag; 2 big plastic-bags/ External Carton.

7.1.2 包装方式 B/ PACKING MODE B

7.1.2.1 参考尺寸: 长×宽×高=375×245×165mm。

Reference Dimension: Length×Width×Height=375×245×165mm.

7.1.2.2 包装细节: 200EA/小塑料袋; 5 小塑料袋/盒; 10 盒/每箱。

Packing Details: 200EA/ little plastic-bag; 5 little plastic-bags/ box; 10 boxes/ External Carton.


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 shall be so carried out that the products will not absorb moisture or be damaged during transportation or storage.

7.2 标签/ LABEL

标签应包括型号、额定电流、额定电压、额定分断电流、商标、安全标志、批量号码、公司名称、RoHS 标志、绿色“G”、绿色“e”(仅无铅产品)和“QA”标志。

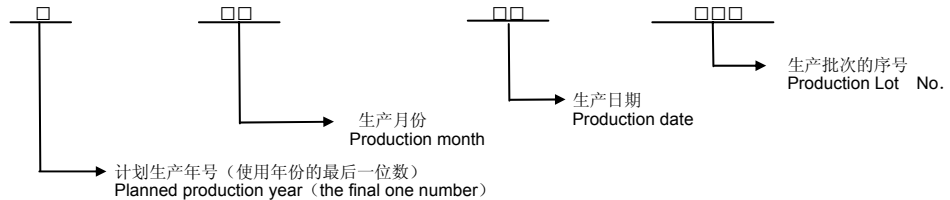
The label in the smallest package in which the fuses are put shall contain the Type, Rated current, Rated

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voltage, Breaking current, Trademark, Safety approval logo, Lot. No., Company name, "RoHS" mark, green "G", green "e" (only Pb free products) and "QA" mark.

例批量号:

Example Lot No.:




8 环境参数/ ENVIRONMENT PARAMETERS

8.1 工作温度/ Operating Temperature: -55°C ~ 125°C.

8.2 储存温度/ Storage Temperature: -55°C ~ 85°C.

9 信赖性试验/ RELIABILITY TEST

项目/ Item	试验要求/ Test Requirement	试验条件/ Test Condition
高温试验 High Temperature Test	试验后保险丝管的电阻符合范围; 电气特性符合: 210% ≤ 2分(I _n ≤ 10A) 或 210% ≤ 30分(I _n > 10A)、150% ≥ 1小时。 After high temperature test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210% ≤ 2minutes(I _n ≤ 10A) or 210% ≤ 30minutes(I _n > 10A), 150% ≥ 1hour.	测试温度: 105 ± 2°C, 测试时间: 1000小时。 Test Temperature: 105 ± 2°C, Test Time: 1000hours.
低温试验 Low Temperature Test	试验后保险丝管的电阻符合范围; 电气特性符合: 210% ≤ 2分(I _n ≤ 10A) 或 210% ≤ 30分(I _n > 10A)、150% ≥ 1小时。 After low temperature test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210% ≤ 2 minutes(I _n ≤ 10A) or 210% ≤ 30minutes(I _n > 10A), 150% ≥ 1hour.	测试温度: -20 ± 2°C, 测试时间: 1000小时。 Test Temperature: -20 ± 2°C, Test Time: 1000hours.
高湿试验 High Humidity Test	试验后保险丝管的电阻符合范围; 电气特性符合: 210% ≤ 2分(I _n ≤ 10A) 或 210% ≤ 30分(I _n > 10A)、150% ≥ 1小时。 After high humidity test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210% ≤ 2 minutes(I _n ≤ 10A) or 210% ≤ 30minutes(I _n > 10A), 150% ≥ 1hour.	测试温度: 40 ± 2°C, 测试湿度: 90%~95%, 测试时间: 96小时。 Test Temperature: 40 ± 2°C, Test Humidity: 90%~95%, Test Time: 96hours.
热冲击试验 Thermal Shock Test	试验后保险丝管的电阻符合范围; 电气特性符合: 210% ≤ 2分(I _n ≤ 10A) 或 210% ≤ 30分(I _n > 10A)、150% ≥ 1小时。 After thermal shock test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210% ≤ 2 minutes(I _n ≤ 10A) or 210% ≤ 30minutes(I _n > 10A), 150% ≥ 1hour.	每个循环: -40°C放置30分钟后85°C放置30分钟, 测试10循环。 -40°C/ 30minutes → 85°C/ 30minutes, 10 cycles.
落下、冲击试验 Falling Shock Test	铜帽应固定牢固, 以保证在未损坏熔断体时, 铜帽不能被卸下。铜帽表面镀层应牢固不易脱落, 每个端帽应能经受专用的设备外加的轴向拉力10N, 保持1分钟。玻璃管必须无缺陷破裂和缺损。试验后保险丝管的电阻符合范围; 电气特性符合: 210% ≤ 2分(I _n ≤ 10A) 或 210% ≤ 30分(I _n > 10A)、150% ≥ 1小时。 Cap should be firmly attached so that it is not possible to remove them without damaging the fuse itself. The means of attachment shall be sufficient to withstand an axial pull of 10N applied to each cap for 1 minute. The cap shall be nickel plated firmly. The glass tube shall have no defects such as crack and injury. After falling shock test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210% ≤ 2 minutes(I _n ≤ 10A) or 210% ≤ 30minutes(I _n > 10A), 150% ≥ 1hour.	一箱10,000个保险丝管从一米高自由落下, 跌落20次。 10,000EA fuses/ one external carton, Falling Height: 1 meter, Falling Times: 20.

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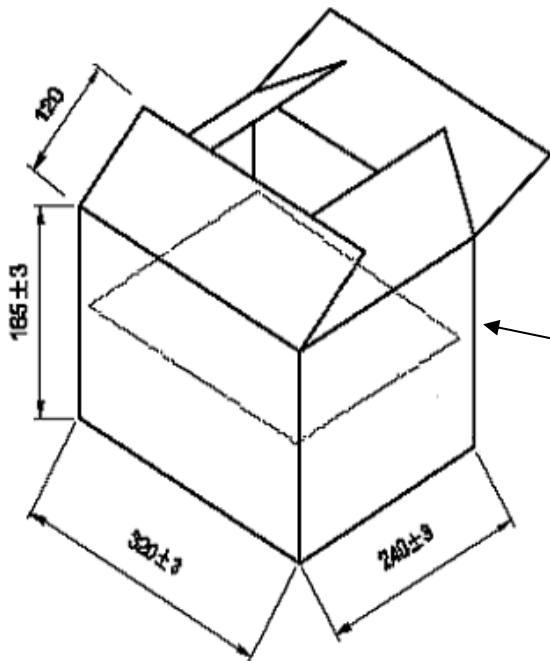
包装方式 A Package A

大塑料袋 Big-Plastic-Bag



200 个/小塑料袋; 25 小塑料袋/大塑料袋
200EA/ little plastic-bag; 25 little plastic-bags/ big plastic-bag
5,000 个/大塑料袋
5,000EA/ big plastic-bag

外箱 External Carton



2 个大塑料袋/箱
2EA big plastic-bags in one carton

1 重量 Weight

一个外箱(装满 10,000 个保险丝管)毛重 9.5 公斤/净重 9 公斤。

One external carton(filled with 10,000EA fuses): G.W. 9.5Kgs/ N.W. 9Kgs.

2 原材料 Material


内盒 Inner box: 纸板 Cardboard.

外箱 External carton: 双层瓦楞纸 Double layer corrugated paper, 厚度 Thickness>6mm.

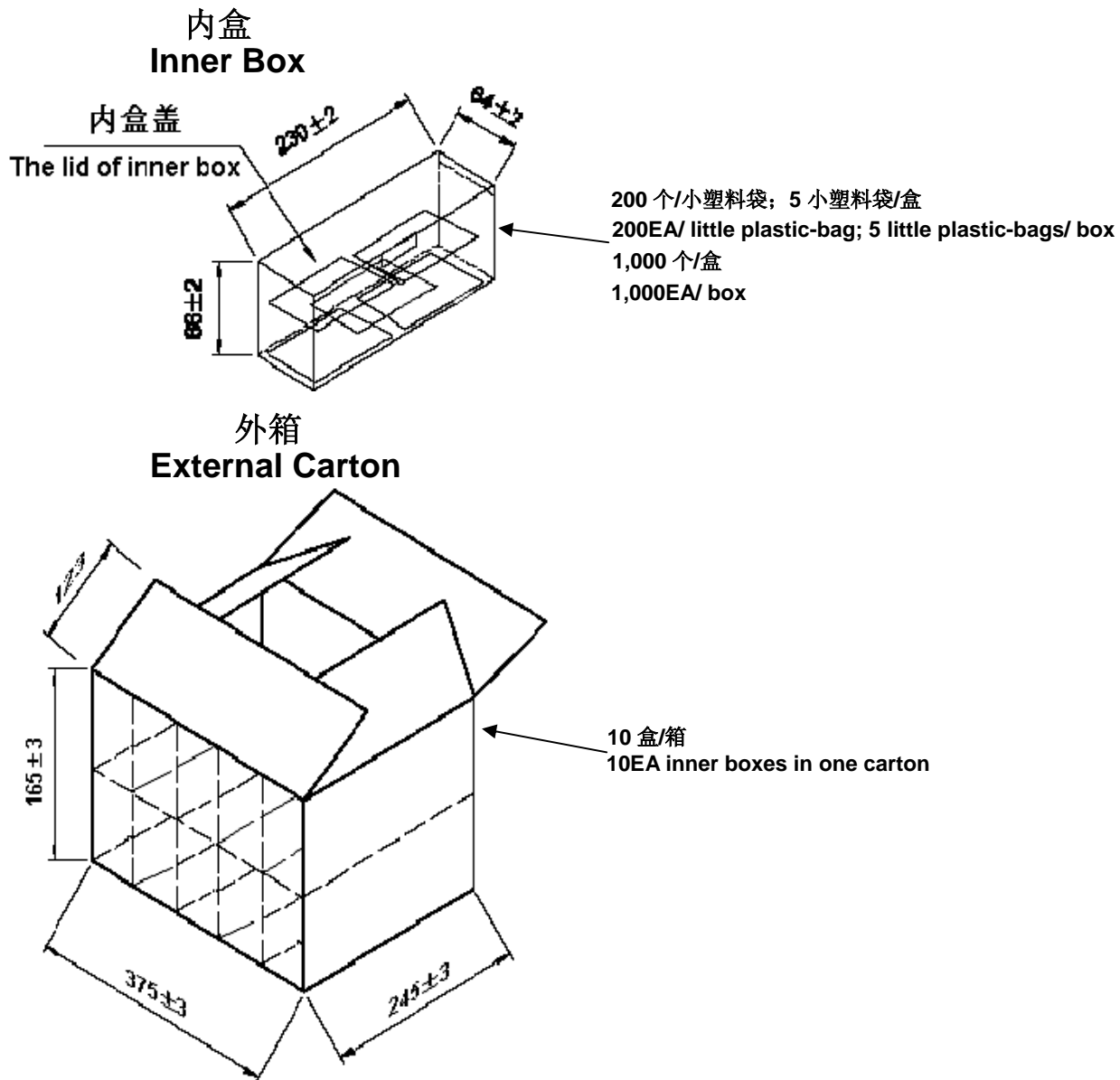
3 印刷标志 Printing and Marking

外箱需有公司名称、电话、传真、电子邮箱、网址、商标、安全标志、RoHS、BSI ISO9001 和 CQC ISO14001:2004 等标志。

External carton With Company name, Tel, Fax, E-mail, Web site, Trade make, Safety approval logo, RoHS, BSI ISO9001 and CQC ISO14001:2004 registered firm etc..

 HOLLYLAND [®] Hollyland (China) Electronics Technology Corporation Ltd. Hollyland (XiaMen) Technology Corporation Ltd.	PRODUCT SPECIFICATION	ISSUED DATE:	2019/10/31
	50T RoHS SERIES	REV. NO.:	A07
		DOC. NO.:	HLD-PSI-8069
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包装方式 B Package B



1 重量 Weight

一个外箱(装满 10,000 个保险丝管)毛重 10 公斤/净重 9 公斤。

One external carton(filled with 10,000EA fuses): G.W. 10Kgs/ N.W. 9Kgs.

2 原材料 Material

内盒 Inner box: 纸板 Cardboard.

外箱 External carton: 双层瓦楞纸 Double layer corrugated paper, 厚度 Thickness>6mm.

3 印刷标志 Printing and Marking

外箱需有公司名称、电话、传真、电子邮箱、网址、商标、安全标志、RoHS、BSI ISO9001 和 CQC ISO14001:2004 等标志。

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单击下面可查看定价，库存，交付和生命周期等信息

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