 Hollyland (China) Electronics Technology Corporation Ltd. Hollyland(XiaMen) Technology Corporation Ltd.	PRODUCT SPECIFICATION	ISSUED DATE:	2020/08/17
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制定 PREPARED BY	研发部 2020-08-17 李湖明	审核 CHECKED BY	研发部 2020-08-17 胡兴华	批准 APPROVED BY	副总经理 2020-08-17 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 50CT RoHS 系列 HOLLY® 商标的小型保险丝管。

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

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

* 额定电压/ Rated Voltage: H - 250V

产品部件号/ PART NUMBER

产品部件号 PART NUM BER	型号规格 MODEL DETAIL	产品部件号 PART NUMBER	型号规格 MODEL DETAIL
50CT-0160H	50CT T160mAH 250V	50CT-025H	50CT T2.5AH 250V
50CT-0200H	50CT T200mAH 250V	50CT-032H	50CT T3.15AH 250V
50CT-0250H	50CT T250mAH 250V	50CT-040H	50CT T4AH 250V
50CT-0315H	50CT T315mAH 250V	50CT-050H	50CT T5AH 250V
50CT-0400H	50CT T400mAH 250V	50CT-063H	50CT T6.3AH 250V
50CT-0500H	50CT T500mAH 250V	50CT-080H	50CT T8AH 250V
50CT-0630H	50CT T630mAH 250V	50CT-100H	50CT T10AH 250V
50CT-0800H	50CT T800mAH 250V	50CT-120H	50CT 12A 250V
50CT-010H	50CT T1AH 250V	50CT-125H	50CT 12.5A 250V
50CT-013H	50CT T1.25AH 250V	50CT-150H	50CT 15A 250V
50CT-016H	50CT T1.6AH 250V	50CT-160H	50CT 16A 250V
50CT-020H	50CT T2AH 250V	50CT-200H	50CT T20AH 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: 50CT I 2A H 250V

*特性符号/ Characteristic Symbol: T - 慢断型/ Time-Lag,

分断能力符号/ Breaking Capacity Symbol: H - 高分断能力/ High Breaking Capacity.

(12A-16A 仅含 CQC、SEMKO、TUV 标识时不必标注“T”“H” 12A-16A need not be marked “T”“H”for CQC, Semko and TUV alone)


2 相关标准/ APPLICABLE STANDARDS

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

Applicable standards for 50CT 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		UR		TUV	
	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.	认证范围 APPROVE D RANGE	认证号码 CERT. NO.
250V	1A~6.3A	SE-S-2001174	1A~10A	40014896	1A~6.3A	KM 52652	200mA~16A	E156471	12A~16A	R50341798
	8A、10A、12.5A、16A	SE-S-2002159	12.5A、16A	40030750						
额定电压 RATED VOLTAGE	KC		CCC		CQC		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.	认证范围 APPROVED RANGE	认证号码 CERT. NO.		
250V	1A~6.3A	SU05008-4004D	1A~6.3A	202097020700 0173	12.5A、16A	CQC0901203740 5	1A~5A	JET 2489-31003-2006		
	8A、10A	SU05008-11002C	8A、10A	202097020700 0169			5.1A~10A	JET 2489-31003-2022		
							10.1A~15A	JET2489-31003-1029		

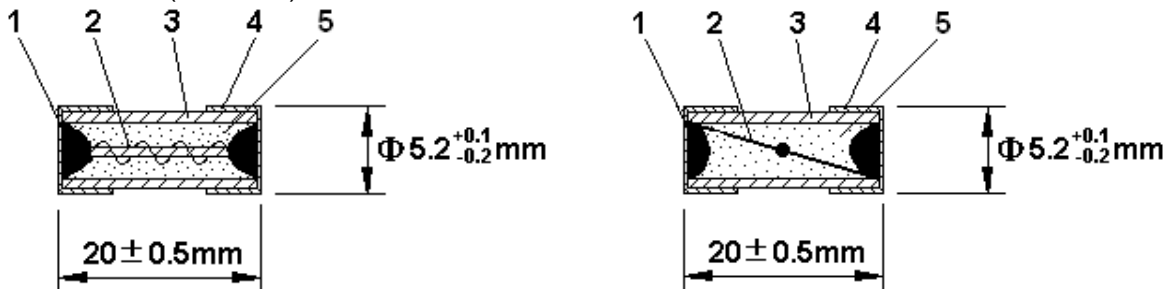
 HOLLYLAND [®] Hollyland (China) Electronics Technology Corporation Ltd. Hollyland(XiaMen) Technology Corporation Ltd.	PRODUCT SPECIFICATION	ISSUED DATE: 2020/08/17	2020/08/17
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3 公司地址/ ADDRESS

中国福建省厦门市翔安区舩山东二路 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	额定电流 $I_n < 12A$
		含铅高温焊锡/ Pb Contained High temperature Solder	额定电流 $I_n \geq 12A$
2	可熔体/ Element	玻璃纤维 + 金属丝/ Glass Fiber + Metal Wire	额定电流 $I_n < 800mA$
		金属丝/ Metal Wire	额定电流 $I_n: 800mA \sim 2A$
		一个锡球 + 金属丝/ One Solder Blob + Metal Wire	额定电流 $I_n > 2A$
3	管体/ Tube	陶瓷管/ Ceramic Tube	灌砂/ Filled Sand
4	铜帽/ Cap	黄铜/ Brass	镀镍/ Nickel Plated
5	填充物/ Filler	石英砂/ Quartz Sand	/

4.2 陶瓷管/ CERAMIC TUBE

陶瓷管无破裂、缺损或污染等现象。

The ceramic 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°C-35°C 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°C and 35°C. 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

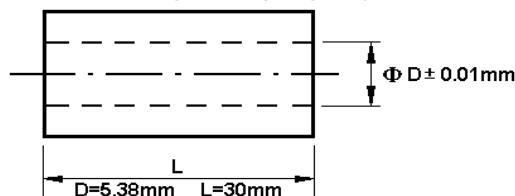
焊接铜帽端时,管内和铜帽外表面不能有残留的助焊剂、焊锡等异物。

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能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

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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	额定电压 Rated Voltage	最大电压降 Maximum Voltage Drop (mV)	最大维持功耗 Maximum Sustained Power Dissipation (W)
100mA 125mA 160mA 200mA 250mA 315mA 400mA 500mA 630mA 800mA	250V	2,800 2,600 2,400 2,100 1,500 1,100 1,000 850 650 500	1.6
1A 1.25A 1.6A 2A 2.5A		350 300 200 190 180	2.5
3.15A 4A 5A 6.3A 8A 10A 12A 12.5A		140 100 100 100 100 100 80 80	4
15A 16A 20A		80	6

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

额定电流 Rated Current	2.1I _n		2.75I _n		4I _n		10I _n	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
100mA-800mA	30min.	250ms	80sec.	50ms	5sec.	5ms	150ms	
>800mA-3.15A	30min.	750ms	80sec.	95ms	5sec.	10ms	150ms	
>3.15A-10A	30min.	750ms	80sec.	150ms	5sec.	10ms	150ms	
>10A	30min.	1sec.	80sec.	150ms	8sec.	20ms	150ms	

5.3 分断能力/ BREAKING CAPACITY

这些型号的保险丝的分断能力应能达到下表规定的相应的各种安全认证的分断能力要求。保险丝分断电路后,保险丝管不应破裂、铜帽飞脱、且铜帽两端的绝缘电阻不小于 0.1MΩ。

The breaking capacity should reach the breaking rated current given in the following table. And after this test, there should be no damage of the fuse-tube or shattering of the caps. After this test, the insulation resistance between the end caps shall be not less than 0.1MΩ.

额定电压 RATED VOLTAGE	分断电流/ BREAKING CURRENT		
	UR/ CUR	CCC/CQC/ SEMKO/ VDE/ BSI/ TUV/KTL	PSE
250V	1500A(200mA~16A), A.C.	1500A(1A~16A), A.C.	1500A(1~10A), A.C. 100A(10.1A~15A), A.C.

5.4 耐久性试验/ ENDURANCE TEST

耐久性试验过程。/ 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.



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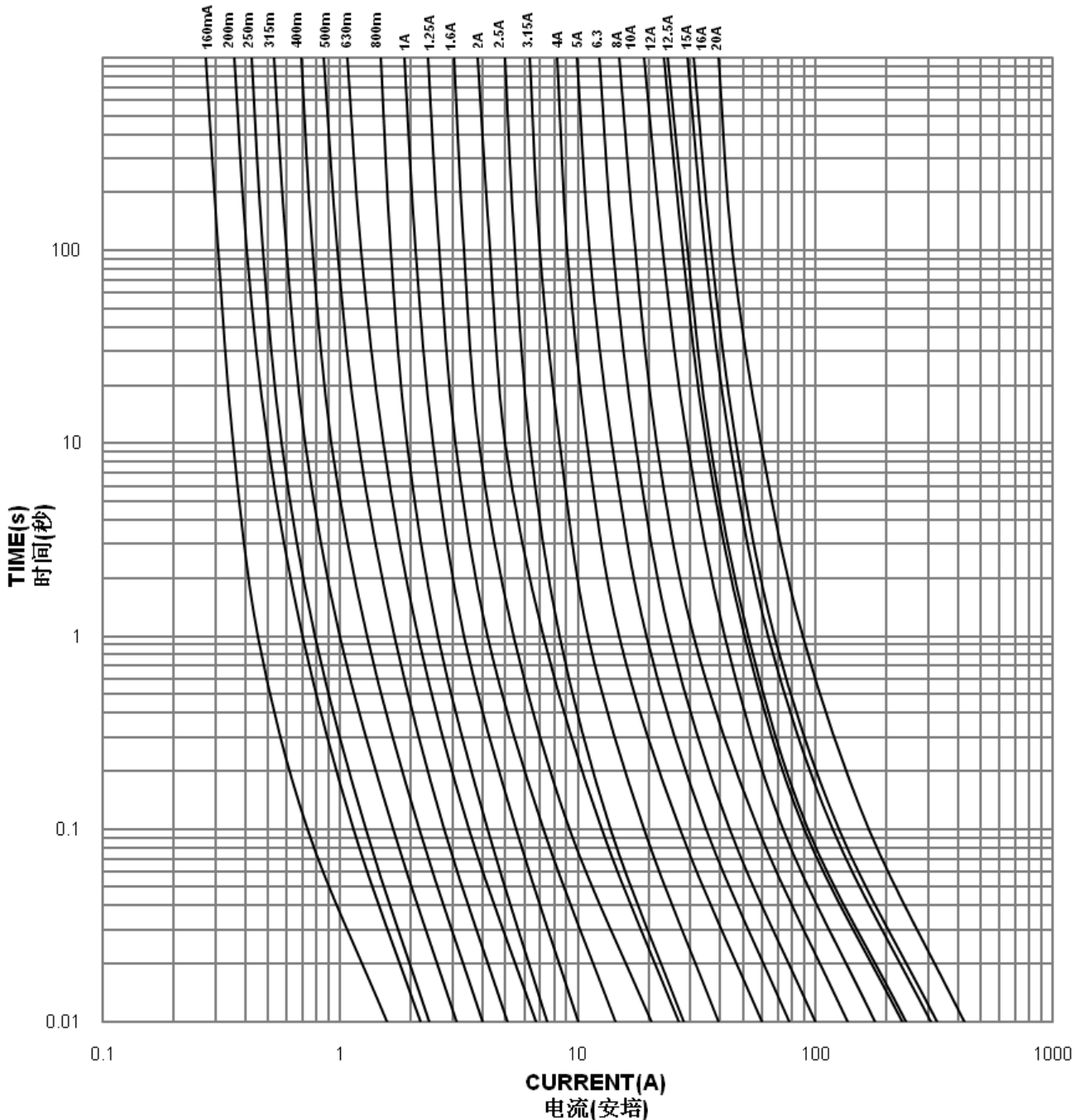
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D 试验后,标记仍应清晰可辨,而且诸如端帽上的焊点不应出现任何明显的劣变。/ After the test, the marking shall still be legible and soldered joints on end caps, for example, shall not show and appreciable deterioration.

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

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





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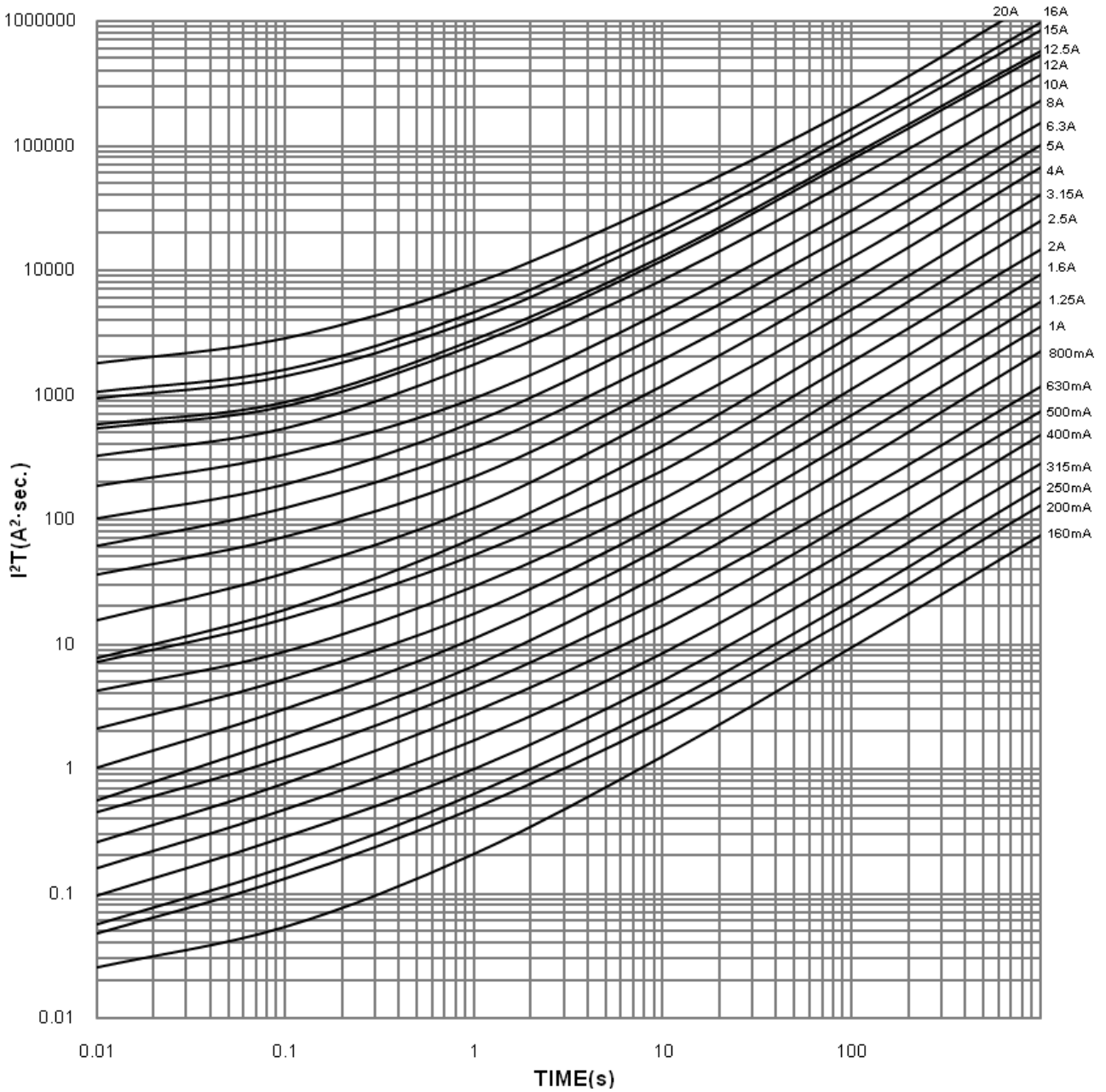
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5.6 平均 I²T-T 特性曲线图(仅供参考)/ THE AVERAGE I²T-T CHARACTERISTICS CURVE(FOR REFERENCE ONLY)

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



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5.7 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 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: 50CT
- 3) 商标/ Trademark: 
- 4) 特性符号/ Characteristic Symbol: T(12A-16A 仅含 CQC、SEMKO、TUV 标识时不必标注“T” 12A-16A need not be marked “T” for CQC, Semko and TUV alone)
- 5) 额定电流/ Rated Current
- 6) 分断能力符号/ Breaking Capacity Symbol: H(12A-16A 仅含 CQC、SEMKO、TUV 标识时不必标注“H” 12A-16A need not be marked “H” for CQC, Semko and TUV alone)
- 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。

Packaging 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。

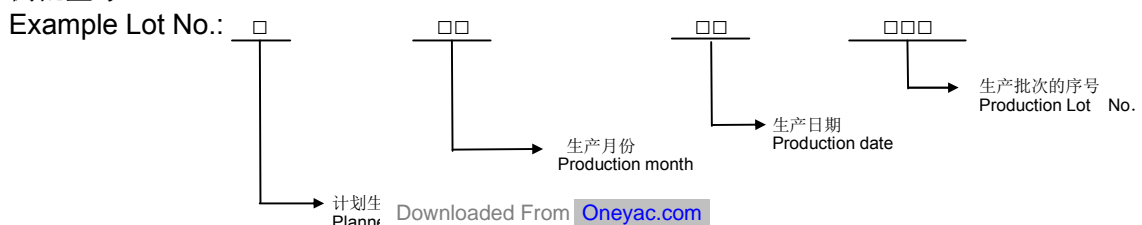
Packing shall be so carried out that the products will not absorb moisture or be damaged during transportation or storage.


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 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:



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8 环境参数/ ENVIRONMENT PARAMETERS

8.1 工作温度/ Operating Temperature: $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$.

8.2 储存温度/ Storage Temperature: $-55^{\circ}\text{C} \sim 85^{\circ}\text{C}$.

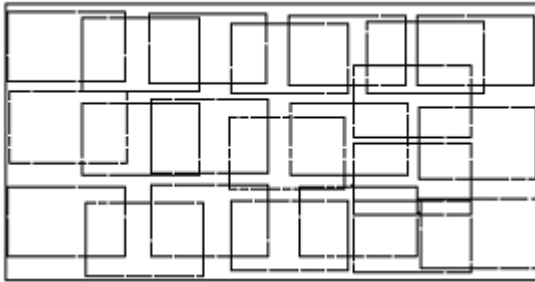
9 信赖性试验/ RELIABILITY TEST

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% ≤ 30 分、150% ≥ 1 小时。 After high temperature test, the resistance value of the fuses shall be in range. Electrical Characteristics:210% ≤ 30 minutes, 150% ≥ 1 hour.	测试温度：105 $\pm 2^{\circ}\text{C}$ ，测试时间：1000 小时。 Test Temperature: 105 $\pm 2^{\circ}\text{C}$ ，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% ≤ 30 分、150% ≥ 1 小时。 After low temperature test, the resistance value of the fuses shall be in range. Electrical Characteristics:210% ≤ 30 minutes, 150% ≥ 1 hour.	测试温度：-20 $\pm 2^{\circ}\text{C}$ ，测试时间：1000 小时。 Test Temperature: -20 $\pm 2^{\circ}\text{C}$ ，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% ≤ 30 分、150% ≥ 1 小时。 After high humidity test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210% ≤ 30 minutes, 150% ≥ 1 hour.	测试温度：40 $\pm 2^{\circ}\text{C}$ ，测试湿度： 90%~95%，测试时间：96 小时。 Test Temperature: 40 $\pm 2^{\circ}\text{C}$ ，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% ≤ 30 分、150% ≥ 1 小时。 After thermal shock test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210% ≤ 30 minutes, 150% ≥ 1 hour.	每个循环：-40 $^{\circ}\text{C}$ 放置 30 分钟后 85 $^{\circ}\text{C}$ 放置 30 分钟，测试 10 循环。 -40 $^{\circ}\text{C}$ / 30minutes \rightarrow 85 $^{\circ}\text{C}$ / 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。陶瓷管必须 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% ≤ 30 分、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 ceramic 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% ≤ 30 minutes, 150% ≥ 1 hour.	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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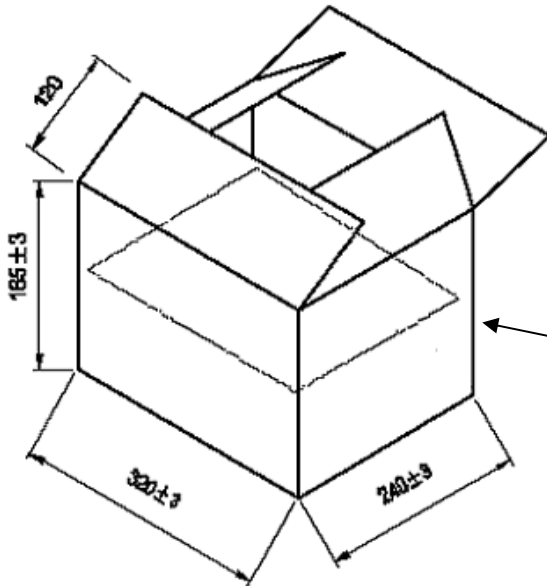
包装方式 A Package A

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 13 公斤/净重 12.5 公斤。

One external carton(filled with 10,000EA fuses): G.W. 13Kgs/ N.W. 12.5Kgs.

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.

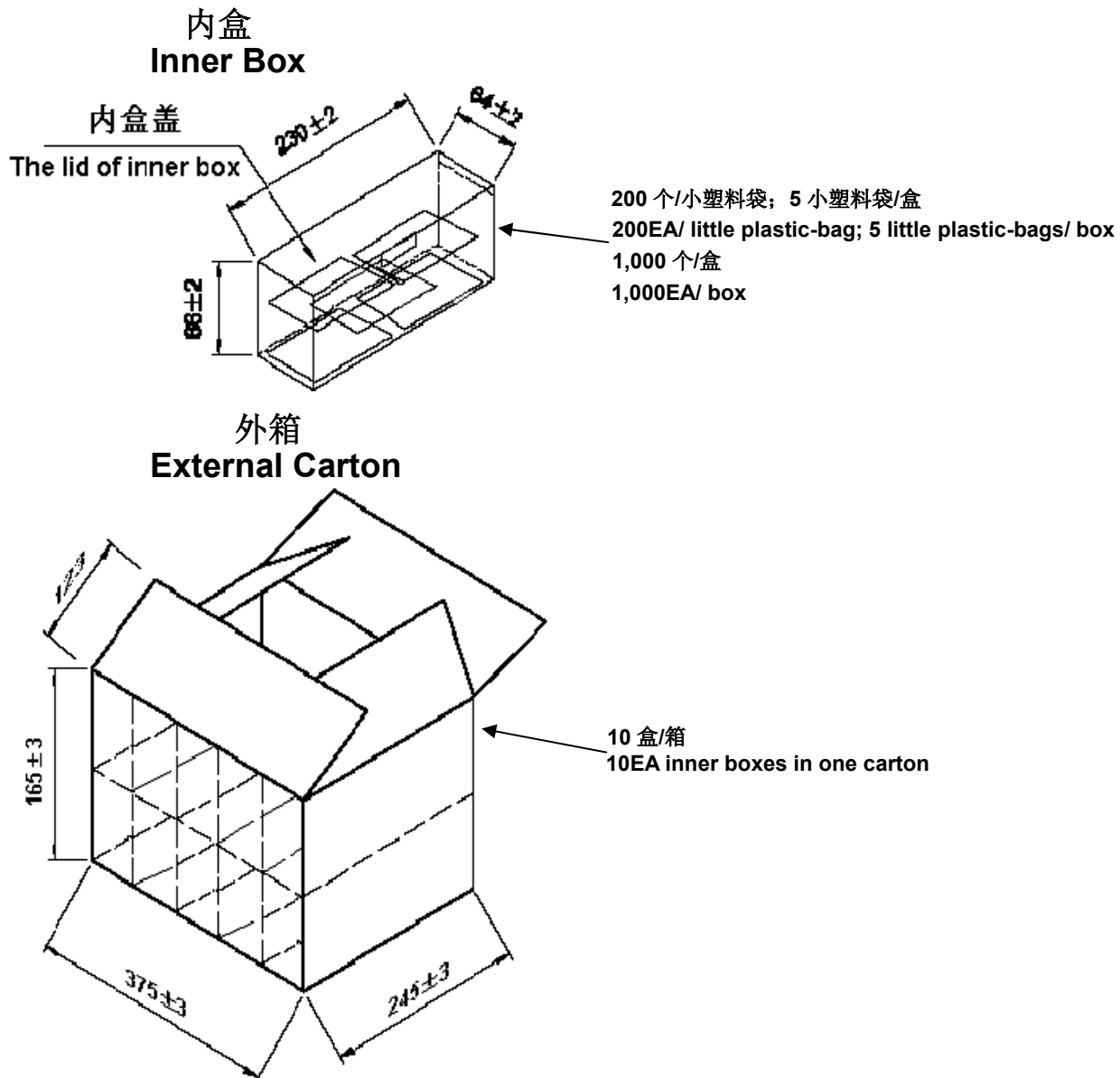
3 印刷标志 Printing and Marking

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: 2020/08/17	2020/08/17
	50CT RoHS SERIES	REV. NO.: DOC. NO.: PAGE:	B01 HLD-PSI-8071 Page 9 of 10

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 13.5 公斤/净重 12.5 公斤。

One external carton(filled with 10,000EA fuses): G.W. 13.5Kgs/ N.W. 12.5Kgs.

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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版本变更记录 Revision Change History

修改日期 Change DATE	变更内容 DESCRIPTION OF CHANGE	修改人 ORIGINATOR
2020.3.17	SEMKO 1A~6.3A 证书由 1716092 变更为 SE-S-2001174	胡兴华
2020.4.30	增加: 12A-16A 仅含 CQC、SEMKO、TUV 标识时不必标注“T”“H” 12A-16A need not be marked “T” “H” for CQC, Semko and TUV alone	胡兴华
2020.8.17	CCC 1A-6.3A 证书号由 2005010207153274 变更为 2020970207000173	李湖明
2020.8.17	CCC 8A、10A 证书号由 2019010207242551 变更为 2020970207000169	李湖明
2020.9.9	8A-16A SEMKO 证书由 1716093 变更为 SE-S-2002159	胡兴华

单击下面可查看定价，库存，交付和生命周期等信息

[>>HOLLY\(好利来\)](#)