


 HOLLYLAND (CHINA) ELECTRONICS TECHNOLOGY CORPORATION LIMITED	PRODUCT SPECIFICATION	ISSUED DATE: 2013/5/14
	HC10aR-C RoHS SERIES	REV. NO.: A01 DOC. NO.: HLD-PSI-1005 PAGE : Page 1 of 5

制定 PREPARED BY		审核 CHECKED BY		批准 APPROVED BY	
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1. 适用范围/ SCOPE **朱泽江**

本规格书适用于本公司生产的 HC10aR-C RoHS 系列 HOLLY® 商标的圆筒型帽熔断体。

This specification defines the technical requirements of fuse-links having cylindrical contact caps type HC10aR-C RoHS series with HOLLY® brand.

产品部件号为:

Construction of part no:

例如 For Example:

型号

type

10aR-C

额定电流

rated current

10

额定电压

rated voltage

U5

* 额定电压 Rated voltage: **U5 - 500V**

产品部件号 PART NUMBER

目录编号 Part No.	额定电流 Rated Current	额定电压 Rated Voltage	目录编号 Part No.	额定电流 Rated Current	额定电压 Rated Voltage
10aR-C0.25 U5/U6/U0	2 5 0 m A		10aR-C6 U5/U6/U0	6 A	
10aR-C0.315 U5/U6/U0	3 1 5 m A		10aR-C6.3 U5/U6/U0	6 . 3 A	
10aR-C0.4 U5/U6/U0	4 0 0 m A		10aR-C7 U5/U6/U0	7 A	
10aR-C0.5 U5/U6/U0	5 0 0 m A		10aR-C8 U5/U6/U0	8 A	
10aR-C0.63 U5/U6/U0	6 3 0 m A		10aR-C9 U5/U6/U0	9 A	
10aR-C0.8 U5/U6/U0	8 0 0 m A		10aR-C10 U5/U6/U0	1 0 A	
10aR-C1 U5/U6/U0	1 A	U5-500V	10aR-C12 U5/U6/U0	1 2 A	U5-500V
10aR-C1.25 U5/U6/U0	1 . 2 5 A	U6-690V	10aR-C12.5 U5/U6/U0	12.5A	U6-690V
10aR-C1.6 U5/U6/U0	1 . 6 A	U0-1000V	10aR-C15 U5/U6/U0	1 5 A	U0-1000V
10aR-C2 U5/U6/U0	2 A		10aR-C16 U5/U6/U0	1 6 A	
10aR-C2.5 U5/U6/U0	2 . 5 A		10aR-C20 U5/U6/	2 0 A	
10aR-C3 U5/U6/U0	3 A		10aR-C25 U5/U6	2 5 A	
10aR-C3.15 U5/U6/U0	3 . 1 5 A		10aR-C30 U5/U6	3 0 A	
10aR-C4 U5/U6/U0	4 A		10aR-C32 U5/U6	3 2 A	
10aR-C5 U5/U6/U0	5 A		/	/	

2. 相关标准及认证情况 APPLICABLE STANDARDS & APPROVED DETAILS

2.1 HC10aR-C RoHS 系列产品适用的相关标准是 IEC 60269, GB 13539.

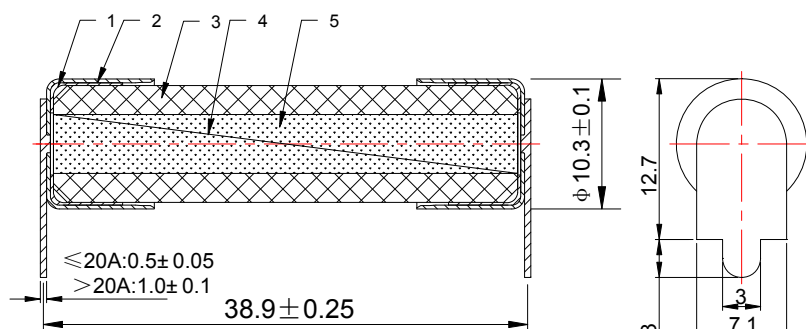
Applicable standards for HC10aR-C RoHS series are IEC 60269 and GB 13539.


3. 公司地址 ADDRESS

中国福建省厦门市湖里区枋湖路 9-19 号

NO. 9-19, FANGHU ROAD, HULI, XIAMEN, FUJIAN, CHINA.

4. 构造图 CONSTRUCTION FIG. & DIMENSION



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4.1 原材料规格 MATERIAL

品名 PART	材料 MATERIAL	备注 REMARK
铜帽 Cap	黄铜 Brass	
内帽 Inner Cap	黄铜 Brass	
陶瓷管 Ceramic Tube	陶瓷 Ceramic	
可熔体 Fusible Element	金属丝、金属片 Metal Wire / Metal Sheet	
石英砂 Quartz Sand	二氧化硅 Silicon Dioxide	

4.2 陶瓷管 Ceramic Tube

陶瓷管无破裂、缺损或污染等现象。

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

5. 电气特性 ELECTRICAL PERFORMANCES

5.1 测试条件 TEST CONDITIONS

全部测试条件都应在环境温度 $20^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 条件下进行。

All electrical tests are conducted at a ambient temperature of $20\pm 5^{\circ}\text{C}$.

5.2 负载能力测试 CURRENT-CARRYING CAPACITY TEST

当熔断体通以100%倍额定电流的条件下进行测试时，在4小时内电路不应断开，熔断体不被电流熔断，管体不破裂。

A fuse-link shall carry 100% of rated current for 4 hours, and the circuit shall not be opened. While the fuse is carrying this current, no open circuit, melt fusible element, and ruptured tube shall occur in any manner during this test.

5.3 温度上升试验 TEMPERATURE RISE TEST

当熔断体通以100%倍额定电流的条件下进行测试时，在达到热量平衡后，测量接线端子的温度，接线端子的温度上升必须等于或低于 130°C 。

The circuit is be made to carry 100% of the fuse rating. After thermal equilibrium is reached, the temperature rise on the terminal of each fuse shall be 130°C or less.

5.4 最大额定耗散功率 MAXIMUM RATED POWER DISSIPATION


额定电流 Rated Current	最大额定耗散功率 Maximum Rated Power Dissipation(W)
250mA-32A	8

5.5 时间-电流特性 TIME-CURRENT CHARACTERISTICS

当熔断体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-link, 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.

额定 Rated		熔断时间 BLOWING TIME	
		250mA-5A	6A-32A
1.0In	最快 Min.	4 hours	
4 In	最快 Min.	3ms	10ms
	最慢 Max.	1s	10s
10 In	最慢 Max.	20ms	30ms

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5.6 分断能力BREAKING CAPACITY

熔断体的分断能力应能达到下表规定的分断能力要求。熔断器分断电路后，熔断体及其部件可以改变颜色或者裂缝，但熔断体从载熔件或试验架上取出之前须保持为一整体、且其两端的绝缘电阻不小于0.1MΩ。

The breaking capacity should reach the breaking current rating given in the following table. After this test, the fuse-links or their parts may have changed their colour or may show cracks, provided that the fuse-link remains in one piece before its removal from the fuse-carrier or test rig, and the insulation resistance of both two terminals shall be not less than 0.1MΩ.

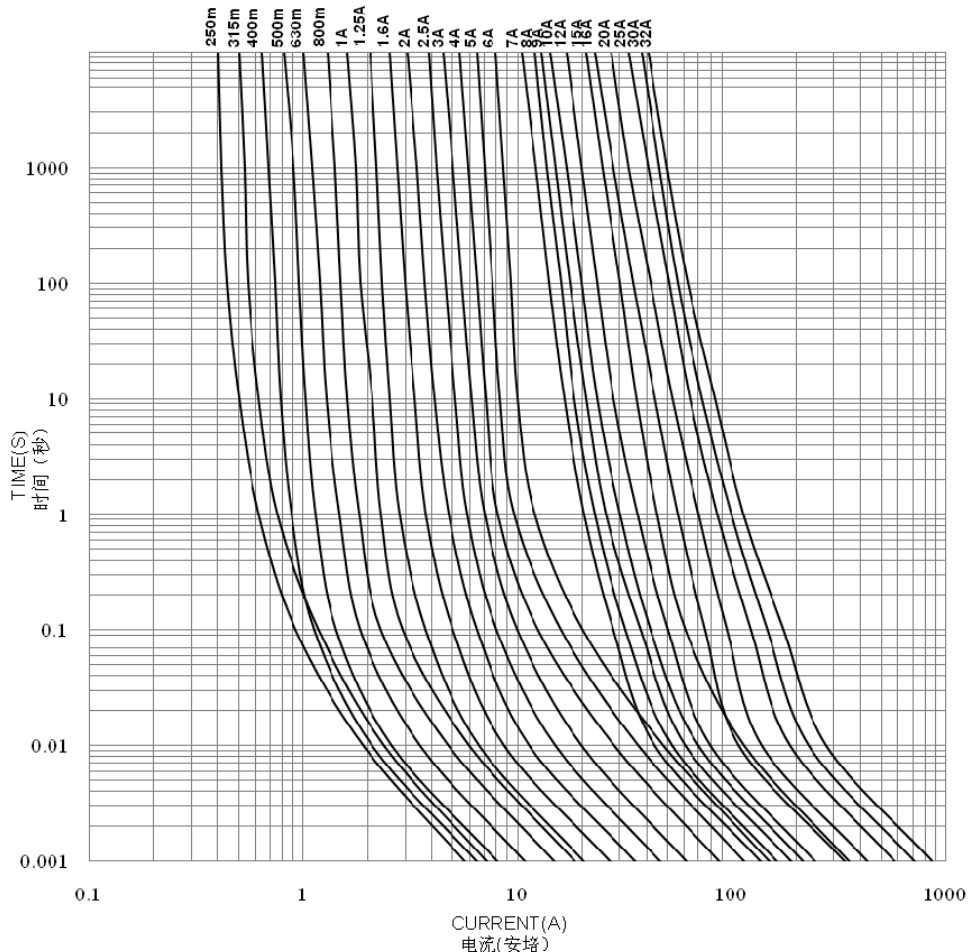
额定电压 RATED VOLTAGE	分断电流/ BREAKING CURRENT
500V AC/DC	120kA (250mA-32A)
690V AC	80kA(250mA-32A)
690V DC	50kA(250mA-32A)
1000V AC	50kA(250mA-20A)
1000V DC	30kA(250mA-20A)


时间常数: <1ms Time Constant: <1ms

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

HC10aR-C RoHS I-T CHARACTERISTICS CURVE (FOR REFERENCE)

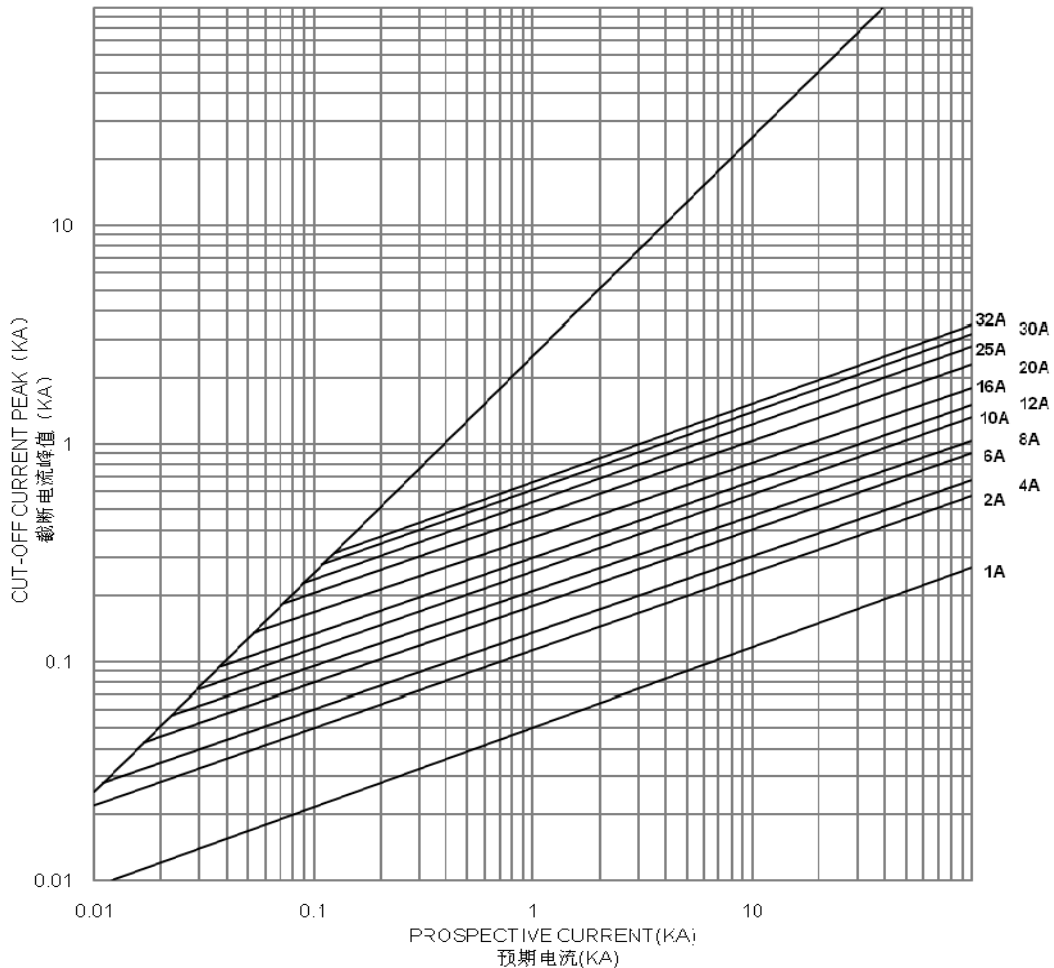
HC10aR-C RoHS I-T 曲线图 (仅供参考)



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5.8 平均截断电流图(仅供参考) THE AVERAGE CUT-OFF CHARACTERISTICS (FOR REFERENCE ONLY)

HC10aR-C RoHS CUT-OFF CHARACTERISTICS(FOR REFERENCE)
HC10aR-C RoHS 截断电流图(仅供参考)



5.9 电阻测试COLD RESISTANCE TEST

环境温度为 $20\pm 5^{\circ}\text{C}$ ，测试电流不大于熔断体额定电流的10%。

Input less than or equal to 10% rated current of fuse-link to fuse for cold resistance test at the ambient temperature of $20\pm 5^{\circ}\text{C}$.

6.产品标志MARKING

6.1 熔断体上的标志应易于看清。

The relevant markings shall be marked on tube of the fuse-link and shall be easily visible.

6.2 每个熔断体应标有下列标记：The symbol for every fuse shall be as prescribed below:

6.2.1 商标Trade mark: HOLLY®

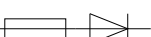
6.2.2 分断范围与使用类别Breaking range and utilization category: aR


6.2.3 额定电流Rated current:

6.2.4 额定电压Rated voltage:

6.2.5 分断能力Breaking capacity:

6.2.6 型号标识Type mark: HC10aR-C

6.2.7 熔断器(5016)和整流器(5186)标志的组合A combination of symbols of a fuse(5016) and rectifier (5186): 

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7. 包装要求 PACKING DETAILS

7.1 包装方式 Packing

7.1.1 小盒参考尺寸 Small Box Size: 长×宽×高 length × width × height = 53×40×15.5mm。

7.1.2 中盒参考尺寸 Box Size: 长×宽×高 length × width × height = 216×92×68mm。

7.1.2 外箱参考尺寸 External Carton Size: 长×宽×高 length × width × height = 470×400×230mm。

7.1.3 包装要求: 5 个/小盒; 24 小盒/盒; 24 热缩袋/每箱。

Packing Details: 5EA/small box; 24 small boxes / box; 24 boxes /exported carton.

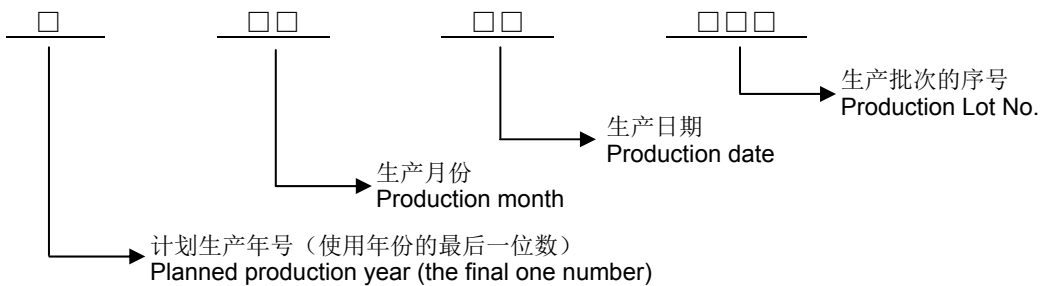
7.2 标签 Label

标签应包括: 型号、额定电压、额定电流、批量号码、RoHS 标志。

The label in the smallest package in which the fuse-links are put shall contain the Type, Rated voltage, Rated current, Lot. No., "RoHS" mark.

例批量号: _____

Example Lot No.: □ □□ □□ □□□



7.3 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.