选型参数表

Table of selection parameters

厂家型号	安规认证
6CH 500mA500V/660V/1000V	
6CH 600mA500V/660V/1000V	
6CH 800mA500V/660V/1000V	
6CH 1.25A500V/660V/1000V	
6CH 2A500V/660V/1000V	
6CH 2.5A500V/660V/1000V	
6CH 3A500V/660V/1000V	
6CH 3.15A500V/660V/1000V	
6CH 4A500V/660V/1000V	
6CH 5A500V/660V/1000V	
6CH 6.3A500V/660V/1000V	
6CH 8A500V/660V/1000V	
6CH 10A500V/660V/1000V	
6CH 12A500V/660V/1000V	
6CH 15A500V/660V/1000V	
6CH 16A500V/660V/1000V	
6CH 20A500V/660V/1000V	
6CH 25A500V/660V/1000V	
6CH 30A500V/660V/1000V	

1. 适用范围Scope

本规格书适用于本公司生产的并获得UL认证的6CH RoHS 系列“ ”商标的小型保险丝。

This specification defines the technical requirements of miniature fuses type 6CH RoHS series with “ ” rand which have been approved by UL.

2. 相关标准及认证情况Applicable Standards & Approved Details

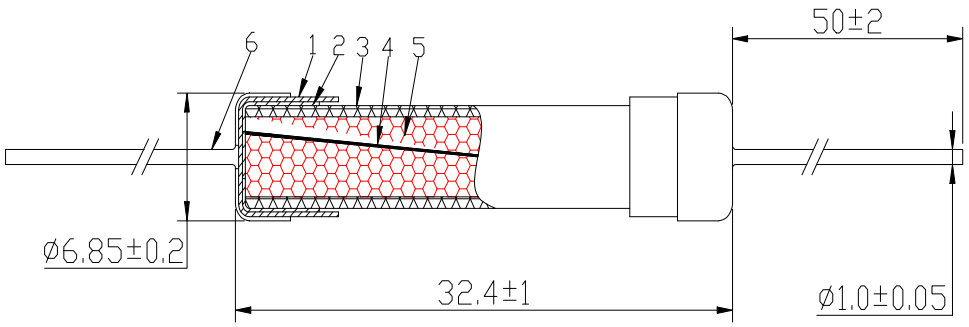
2.1 6CH RoHS 系列产品适用的相关标准是 UL 248。

Applicable standards for 6CH RoHS series are UL 248.

2.2 认证情况 Approved Details

额定电压 Rated Voltage	认证范围 Approved Range	证书编号 Certification number	获证种类 Approved Type
500V AC/DC	100mA-30A	UL：E249609 TUV ：T 506200200001	UL Recognized
660V AC/DC	100mA-30A		
1000V AC/DC	100mA-15A		

3. 结构尺寸图Construction Figure & Dimension (mm)



编号No.	名称Part	材料Material
1	外帽Outside Cap	黄铜镀银Silver Plated Brass
2	内帽Inner Cap	黄铜镀镍Nickel Plated Brass
3	管体Tube	陶瓷Ceramic
4	可熔体 Fusible Element	金属丝或金属片 Metal Wire or Metal Sheet
5	消弧剂Arc extinguishing agent	石英砂Quartz Sand
6	引线铜帽Cap with pig-tail	铜帽Cap：黄铜镀银Silver Plated Brass 引线wire：Stannum Plated copper

4.标志Marking

4.1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.

4.2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:

4.2.1注册商标Trade Mark:

4.2.2产品型号Type code:6CH

4.2.3额定电流Rated current：500mA----30A
4.2.4额定电压Rated Voltage：
4.5.7安全认证标志Safety approval logo:

5.电气特性Electrical Performances
5.1 测试条件 Test Conditions
所有特性测试，在环境温度 20℃±5℃条件下进行。
All electrical tests are conducted at ambient temperature of 20±5℃.
5.2负载能力和温度上升测试Current-Carrying Capacity and Temperature Rise Test
当熔断体通以额定电流时，在4小时内电路不应断开，保险丝不被电流熔化，管体不破裂。在达到热量平衡后，测量保险丝表面的温度，熔断体表面的温度上升必须等于或低于130℃。注：温度上升=保险丝表面的温度—环境温度。
When a fuse is carrying rated current for continuing 4 hours and more, 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. Measure the temperature of the surface of the fuse under the rated current, after thermal equilibrium is reached, the temperature rise on the surface of each fuse shall be 130℃ or less. Note: Temp. Rise = fuse temperature.— room temperature.

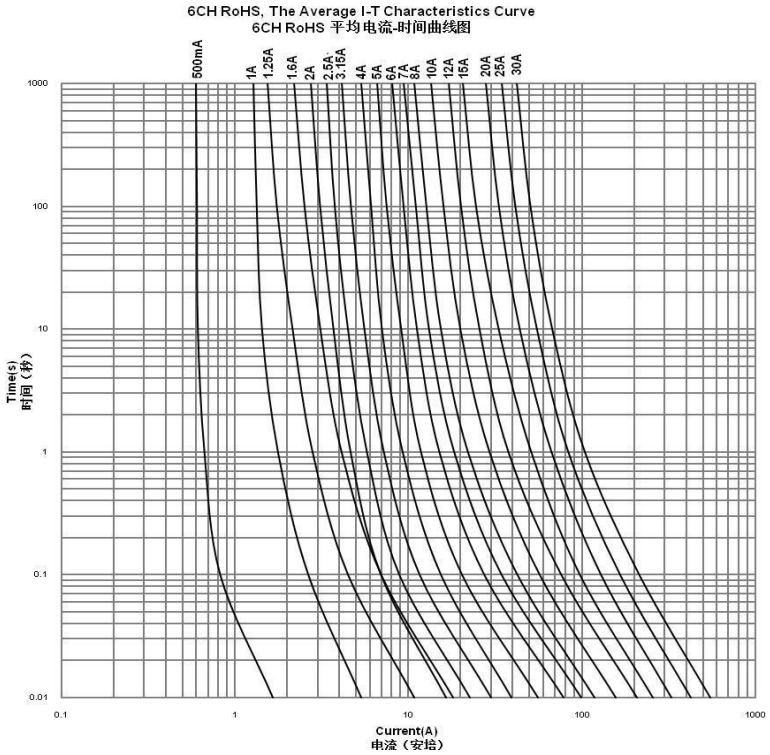
5.3熔断时间Time-Current Characteristics
当熔断体通以下表规定的电流时，其熔断时间必须符合下表的要求，且铜帽不能飞脱、管体不应破裂、损坏。
When the current in the following table is passing the fuse, its opening time must be in accordance with the requirements in the following table, that is, the pre-arcing time. Moreover, neither damages of the fuse-tube nor shattering of the cap shall occur.

熔断电流% of Rated Current	熔断时间Open Time
100%	4Hours Min.
135%	1Hour Max.
200%	120Sec. Max.

5.4分断能力Breaking Capacity
熔断体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 interrupting capacity should reach the interrupting 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	额定电流 Rated Current	分断电流 Breaking Capacity
500V AC/DC	100mA-30A	30KA
660V DC	100mA-30A	10KA
660V AC	100mA-15A	10KA
660V AC	15.1A-30A	1.5KA
1000V AC/DC	100mA-15A	10KA

5.5平均时间电流特性曲线图（仅供参考）The Average I-T Characteristics Curve (For Reference Only.)。



6. 环境参数/ ENVIRONMENT PARAMETERS

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

6.2 储存温度/ Storage Temperature: -55℃～85℃.

7. 信赖性试验/ RELIABILITY TEST

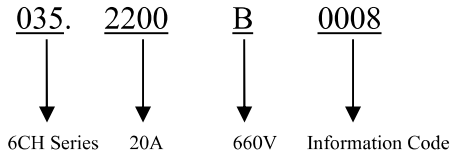
项目/ Item	试验要求/ Test Requirement	试验条件/ Test Condition
高温试验 High Temperature Test	试验后保险丝管的电阻符合范围；电气特性符合：200%≤2 分钟、135%≤1 小时、100%≥4 小时。 After high temperature test, the resistance value of the fuses shall be in range. Electrical Characteristics: 200%≤2minutes, 135%≤1hour, 100%≥4hours.	测试温度：105±2℃，测试时间：1000 小时。 Test Temperature: 105±2℃, 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：200%≤2 分钟、135%≤1 小时、100%≥4 小时。 After low temperature test, the resistance value of the fuses shall be in range. Electrical Characteristics: 200%≤2minutes, 135%≤1hour, 100%≥4hours.	测试温度：-20±2℃，测试时间：1000 小时。 Test Temperature: -20±2℃, 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：200%≤2 分钟、135%≤1 小时、100%≥4 小时。 After high humidity test, the resistance value of the fuses shall be in range. Electrical Characteristics: 200%≤2minutes, 135%≤1hour, 100%≥4hours.	测试温度：40±2℃，测试湿度：90%~95%，测试时间：96 小时。 Test Temperature: 40±2℃, 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：200%≤2 分钟、135%≤1 小时、100%≥4 小时。 After thermal shock test, the resistance value of the fuses shall be in range. Electrical Characteristics: 200%≤2minutes, 135%≤1hour, 100%≥4hours.	每个循环：-40℃放置 30 分钟后室温 25℃放置 5 分钟再放置 85℃ 30 分钟最后放置室温 25℃ 5 分钟，测试 10 循环。 -40℃/ 30mins→25℃/ 5mins→85℃/ 30mins→25℃/ 5mins,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 7N，保持 1 分钟。陶瓷管必须无缺陷破裂、缺损和污染。试验后保险丝管的电阻符合范围；电气特性符合：200%≤2 分钟、135%≤1 小时、100%≥4 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 7N 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: 200%≤2minutes, 135%≤1hour, 100%≥4hours.	一箱 5,000 个或 8,000 个保险丝管从一米高自由落下，跌落 20 次。 5,000EA or 8,000EA fuses/ one external carton, Falling Height: 1 meter, Falling Times: 20.

8. 包装Packaging

8.1 100PCS/袋、300PCS/盒，2400PCS/箱，仅供参考，以实际为准。
100PCS each bag, 300PCS each box, 2400PCS each external carton, for reference only, the actual product may difference.

8.2举例：料号和释义Part code and description



8.3所有产品的包装应能达到防潮、抗震的作用，以防止在运输和储存过程中产品受潮和损坏。
Packing should meet the requirements of anti-moisture and anti-shaking so that the products will not absorb moisture and be damaged during transportation and storage.

UL iQ for Fuses

Fuses E249609

Guide Information

XC ELECTRONICS (SHENZHEN) CORP LTD

BLDG 11, HEAO HENGGANG, JINYUAN INDUSTRY ZONE, SHENZHEN GUANGDONG 518115 CN

6CH

Supplemental fuses: filled-tube, cartridge enclosed

Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
6.35 x 32 (0.25 x 1.26)	0.1 - 15	1000Vac	10000
	0.1 - 15	1000Vdc	10000
	0.1 - 30	500Vac	30000
	0.1 - 30	500Vdc	30000
	0.1 - 30	660Vac	1500
	0.1 - 30	660Vdc	1500
	0.1 - 15	660Vac	10000
	0.1 - 30	660Vdc	10000

Report Date: 2018-06-25
Last Revised: 2018-08-29

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TÜVRheinland®

Date: 2024-02-27

XC Electronics (Shenzhen)
Corp. Ltd.
Building 11
Jinyuan Industrial Zone
He'ao Henggang Town
Shenzhen
518115 Guangdong
P.R. China

Ref: T License

Type of Equipment	:	Miniature Fuse-links
Certificate No.	:	T 50620020 0001
Report No.	:	CN23YSX9 001
Engineer/Contact	:	Robin Luo
Standards	:	UL 248-1:2022 UL 248-14:2000 R5.20

Dear Madame or Sir,

The above referenced technical equipment has been tested and was found to be in compliance with the listed test requirement(s). Enclosed, please find the TUV Rheinland approval document No. T 50620020 0001.
It authorizes you to label the listed product(s) with the TUV Rheinland Mark identified in the approval document. For compliance, the Test Mark must be on the approved unit.

Your product is subject to regular factory follow-up inspections as well as annual certificate and factory registration fees.

In using the TUV Rheinland Mark you are obligated to comply with the TUV Rheinland of North America Service Agreement.

If we can be of any further assistance to you, please do not hesitate to contact us.

With kind regards,

Certification Body

Audrey Wang

Enclosure

Certificate

Certificate no. T 50620020 0001

License Holder:
XC Electronics (Shenzhen)
Corp. Ltd.
Building 11
Jinyuan Industrial Zone
He'ao Henggang Town
Shenzhen
518115 Guangdong
P.R. China

Manufacturing Plant:
XC Electronics (Shenzhen)
Corp. Ltd.
Building 11
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He'ao Henggang Town
Shenzhen
518115 Guangdong
P.R. China

Report Number: CN23YSX9 001

Client Reference:

Certification acc. to: UL 248-1:2022
UL 248-14:2000 R5.20

Product Information

Certified Product: Miniature Fuse-links

Model Designation: 6CH
Trademark : XC(logo)

Technical Data:
Rated Voltage : AC/DC 660V, AC/DC 1000V
Rated Current (In) :
100mA, 125mA, 160mA, 200mA, 250mA, 315mA, 400mA, 500mA, 630mA, 800mA, 1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 3.5A, 4A, 5A, 6.3A, 7A, 8A, 10A, 12A, 12.5A, 15A, 16A, 20A, 25A, 30A
Rated Breaking Capacity :
1) 5kA at AC/DC 660V (for In = 100mA to 30A)
2) 5kA at DC 1000V, 1kA at AC 1000V (for In = 100mA to 15A)
Maximum opening times : 1.35In - 60min, 2.0In - 2min
Dimension or Size : 6.3mmx32mm, without wire terminations

Remarks: This certificate is not valid for EU.

Appendix: 1

TÜVRheinland® CERTIFIED
UL 248-1
UL 248-14
www.tuv.com
ID 0007000000

Date of issue: 2024-02-27
(yr/mo/day)

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