1. 适用范围/ SCOPE

2410LT 系列慢速保险丝，适用于一般电子设备。
2410LT series Slo-Blo Fuse, used in electronic equipment .

2. 产品型号/TYPE

例「example」：

2410LT	630mA/750mA/800mA 1.25A1.6A/2.5A/4.8A/6.3A	250Vac	
2410LT	3.5A	250Vac	
2410LT	500mA/1A/1.5A/2A/3A 3.15A/4A/5A	250Vac	
(1)	**(2)**	**(3)**	**(4)**

(1) 系列号/Series Number
(2) 额定电流/Rated Current
(3) 额定电压/Rated Voltage
(4)认证符号/Approved Symbol

3. 额定电流和额定电压/ RATED CURRENT AND RATED VOLTAGE

额定电流 / Rated Current: 0.5A~6.3A
额定电压 / Rated Voltage: 250V AC

4. 标示/ MARKING

保险丝上需有下列标示/The fuses shall have the following marking

1. 产品系列标识 / Series type Logo ： LT
2. 额定电流/ Rated Current (A): ___A

注意 / Note:
对标示的大小和位置没有规定 / Size and position of the markings shall not be provided.

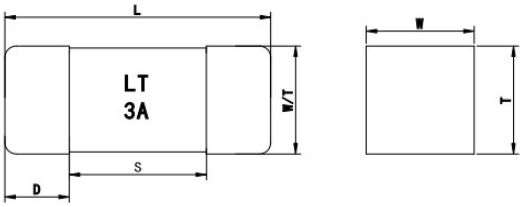
5. 外观及形状/ APPEARANCES AND CONFIGURATION

5.1 外观：无显着的污点、铁锈或裂纹; 标示应容易辨识
Appearances: There shall not be any remarkable stain, rust or crack on the appearances; marking shall be easily legible.

5.2 形状, 表面贴装式保险丝
Configuration: Surface Mount Fuse.

6. 工程图和结构/ OUTLINE DRAWING AND STRUCTURE

6.1工程图（单位：mm）/ Outline Drawing and Dimensions (Unit: mm)



L(mm)	W(mm)	T(mm)	D(mm)	S(mm)
6.40±0.50	2.60±0.30	2.60±0.30	1.55±0.20	3.20±0.40

6.2 结构 / Structure

组件 Component	材质 Material	数量 Quantity
铜帽 Cap	黄铜镀银 Brass with Sliver plated	2
本体 Body	陶瓷管 Ceramic tube	1

7. 产品特性/ PRODUCT CHARACTERISTICS

编号 No.	项目 Item	内容 Contain	参考标准 Reference standard
1	绝缘阻抗 Insulation resistance（after opening）	10,000 ohms minimum	MIL-STD-202G, Method 302 Test Condition A
2	可焊性 Solderability	T=245℃±5℃, t=3+0/-0.5s, Cover ≧95%	MIL-STD-202G, Method 208H
3	耐焊接热 Soldering heat	10 sec at 260 ℃ |△R|:<10%	MIL-STD-202G, Method 210F Test Condition B
4	热冲击 Thermal Shock	5 cycles between -65℃/+125℃ 15minutes ; each extreme |△R|:<10%	MIL-STD-202G, Method 107 Test Condition B
5	机械冲击 Mechanical Shock	100Gs Peak amplitude，sawtooth wave 6 ms duration，3 cycles XYZ+xyz=18 shocks. |△R|:<10%	MIL-STD-202G, Method 213 Test Condition 1
6	高/低温储存 High/Low Temperature Storage	T=125℃±2℃，96hours，T=-55℃±3℃，96hours |△R|: <10%	IEC60068-2-1 / IEC60068-2-2
7	抗潮湿性 Moisture Resistance	85℃±3℃,80%～90%RH 10 cycles |△R|:<10%	MIL-STD-202, Method 106
8	振动 Vibration	10-55-10 Hz Sweep in 1 minute，0.03 in amplitude . 2hours in each of XYZ planes=6hours total. |△R|: <10%	MIL-STD-202 Method 201 (10-55Hz)
9	盐雾实验 Salt spray	5% salt solution，48hours |△R|: <10%	MIL-STD-202G,Method 101E, Test Condition B

8. 电气特性/ ELECTRICAL CHARACTERISTICS

8.1 熔断 / 电流特性：Pre-Arcing Time / Current Characteristic（limits）

RATED CURRENT	1 In (UL)	2 In (UL/TUV/CQC)	10In (TUV/CQC)
630mA/750mA/800mA 1.25A1.6A/2.5A/4.8A/6.3A	4hrs Min.	120s Max.	/
500mA/1A/1.5A/2A/ 3A/3.5A/3.15A/4A/5A	/	120s Max.	10ms-100ms

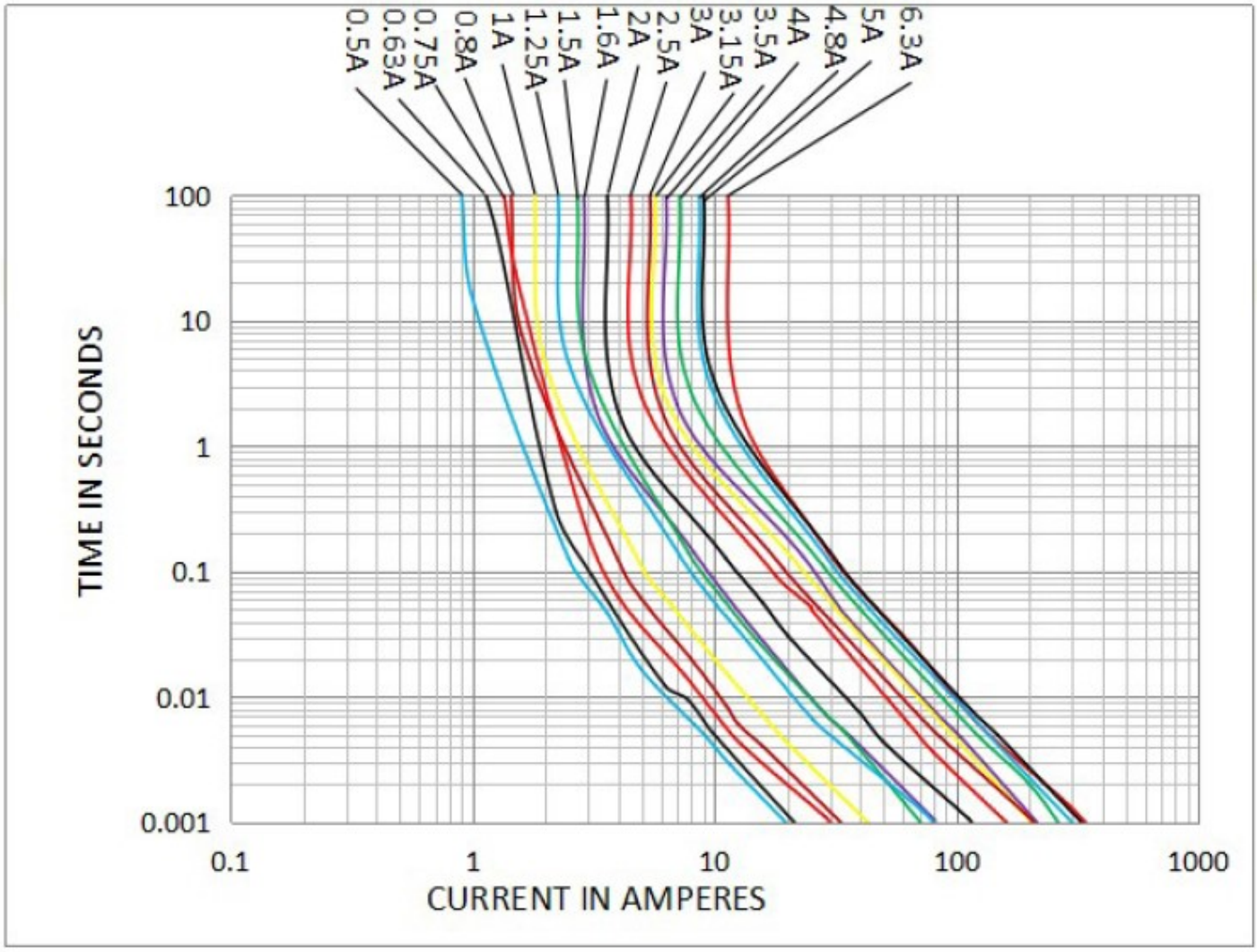
8.2 产品规格 / Specification

额定电流 Rated Current(A)	额定电压 Rated Voltage(V)	分断能力 Breaking Capacity	Typical Cold DCR (mΩ)	Normal I2T** (A2s)	AgencyApprovals		
					cULus		CQC
0.5	250V	UL/TUV/CQC: 250Vac 50A UL: 125Vdc 80A	260	0.3	V	V	V
0.63			230	0.48	V		
0.75			190	0.84	V		
0.8			150	1.28	V		
1			117	3.1	V	V	V
1.25			85	4.1	V		
1.5			75	8.0	V	V	V
1.6			72	8.9	V		
2			49	10.3	V	V	V
2.5			39	17.2	V		
3			27	25.6	V	V	V
3.15			25	26.6	V	V	V
3.5			20	33.7	V	V	
4			15	43.4	V	V	V
4.8			14	49.1	V		
5			13	50.5	V	V	V
6.3			10	68.3	V		

** I2T Values stated for 10 times of rated current

Agency Approval Table Key: V=Approve or Certified,P=Pending and Blank=Not Approal

8.3 时间电流曲线/ Time-Current Curve



9. 环境特性/ ENVIRONMENTAL CHARACTERISTIC

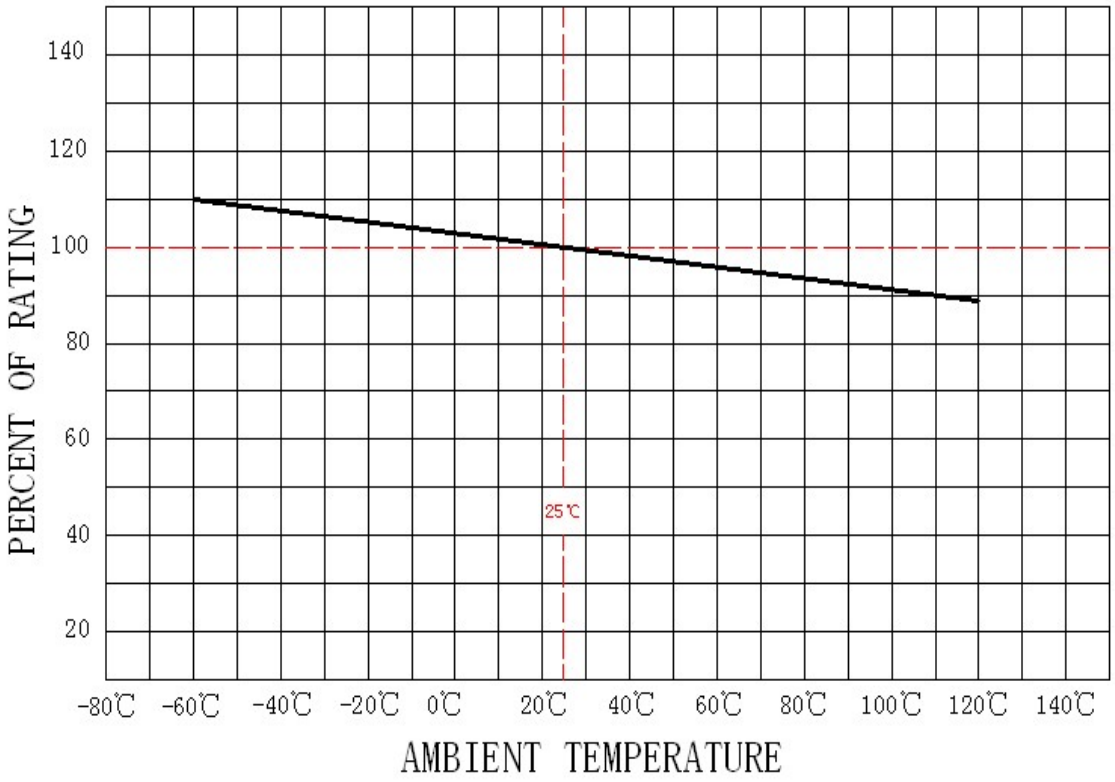
操作温度范围: -55℃ ~ 125℃ / Operating Temperature:-55℃ ~ 125℃

若贵司操作环境温度超出 25±5℃范围，在选用保险丝规格时， 需考虑操作环境温度对保险丝的影响。

请参照：温度-电流曲线图。

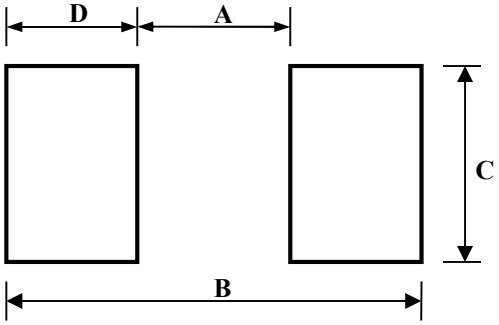
When choosing the fuse's specification, if the operating environmental temperature beyond the scope from 20~30℃, you should consider the environmental temperature's affection to fuses.

Please refer : Temperature-Current curve:



10. 安装方式及条件/ INSTALLATION WAY AND PARAMETERS

10.1 建议如下图安装方式安装，并满足所要求的尺寸
Propose that the following picture installation way is installed, and satisfied the required size.



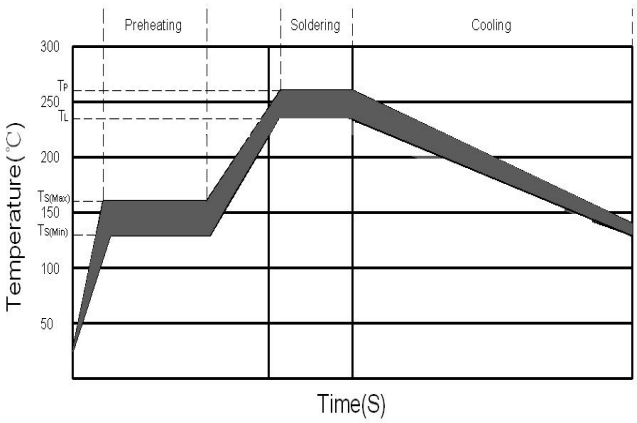
Dimensions	A(mm)	B(mm)	C(mm)	D(mm)
2410LT	3.20±0.30	9.6±0.30	3.9±0.30	3.2±0.30

10.2 建议建议客户焊接参数 / Recommended Customer Soldering Parameters

1. Infrared Reflow:
   Temperature：260℃
   Time：5sec Max.

Recommend Reflow profile

Reflow Condition		Pb-Free assembly
Preheating	-Temperature Min (Ts(min))	150 ℃
	-Temperature Max (Ts(max))	200 ℃
	-Time	60~120 Secs
Soldering	-Temperature (TL)(Liquidus)	235 ℃
	-Time Max (TL)	20~40Secs
	-Peak Temperature (Tp)	Max 260 ℃
	-Time Max (Tp)	5 Secs



2. Wave soldering
Reservoir Temperature: 260℃
Time in Reservoir: 10sec Max.

3. Hand Soldering :
Temperature: 300℃
Time: 2sec Max.
Soldering iron avoid touch Cap.

11. 其他使用注意事项 / OTHER NOTICE IN USED

符合本公司可能的其它檔的要求。
It could be in conformance with another file which made by our company.

12. 安全认证及编号/STANDARDS AND APPROVALS

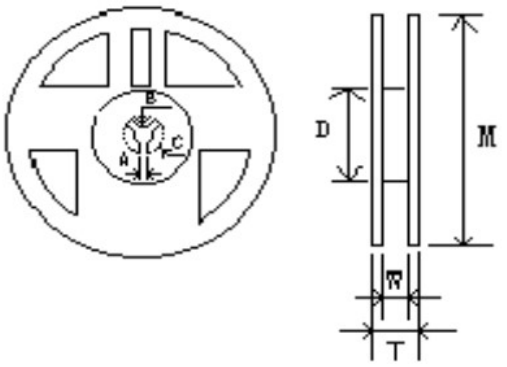
UL	E56092
TUV	R50485936（500mA/1A/1.5A/2A/3A/3.15A/3.5A/4A/5A)
CQC	CQC20012273793（500mA/1A/1.5A/2A/3A3.15A/4A/5A)

13. 包装讯息/ PACKING INFORMATION

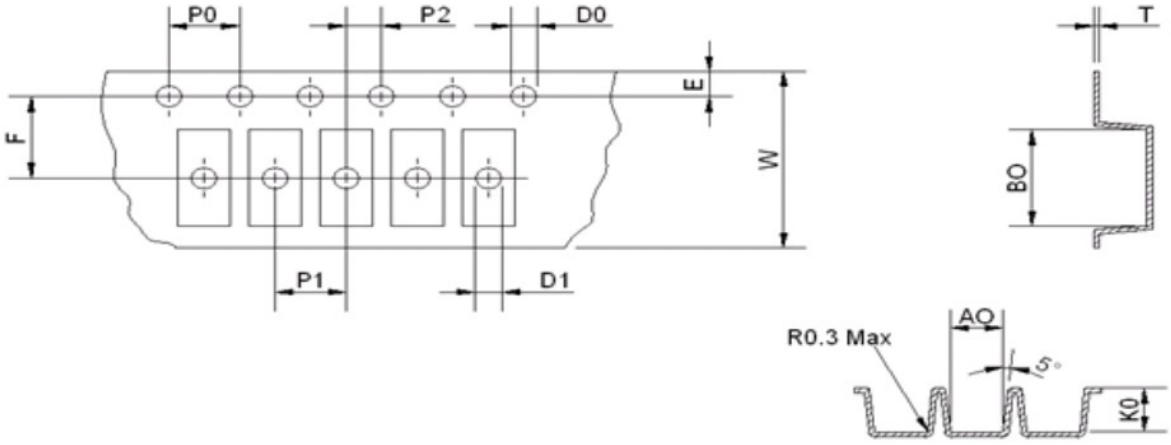
13.1 数量/ Quantity

型号 Type Number	数量/ Quantity
2410LT	1000PCS

13.2 卷轮规格/ Reel & Tape specifications



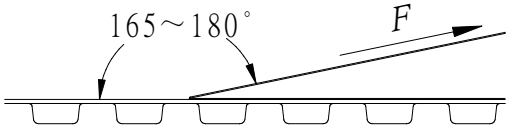
M(mm)	178.00±2.00
W(mm)	12.50±1.50
T(mm)	14.50±1.50
A(mm)	2.00±0.50
B(mm)	13.00±0.50
C(mm)	21.00±0.50
D(mm)	58.00±2.00



A0(mm)	B0(mm)	K0(mm)	P0(mm)	P1(mm)	P2(mm)
3.00 ± 0.10	7.00 ± 0.10	3.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10
E(mm)	F(mm)	D0(mm)	D1(mm)	W(mm)	T(mm)
1.75 ± 0.10	5.50 ± 0.10	1.50 ± 0.10	1.50 ± 0.25	12.0 ± 0.15	0.25 ± 0.05

13.3 密封胶膜剥离强度要求 / Peeling Strength of Seal Tape

F = 剥离强度 : 0.1 – 1.0N (10 - 100gf)



14. 其他/ OTHERS

14.1 如果在使用中有超出本规格书的要求，必须经由双方协商确认.
In the event that an impropriety is found beyond this specification, it shall be fixed by mutual agreement between the parties.

14.2 如果本规格书有不适当的情况，必须通过双方协商并由本公司修改.
In the event that an impropriety is found in this specification, WALTER ELECTRONIC CO., LTD. shall amend it by mutual agreement between the parties.

UL iQ for Fuses

Fuses E56092

Guide Information

SUZHOU WALTER ELECTRONIC CO LTD

NO.99 Xinli Road, Fenhu Technic Development Zone, Wujiang Jiangsu 215211 CN

2410LT

Supplemental micro fuses: surface mount, cartridge enclosed

Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
6.4 x 2.6 x 2.6 (0.25 x 0.10 x 0.10)	0.5 - 6.3	250Vac	50
	0.5 - 6.3	125Vdc	80

Report Date: 2019-01-21
Last Revised: 2019-10-17

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Zertifikat *Certificate*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*
R 50485936

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0001

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum** *Date of Issue*
	05-YFC-NN20H561 001	11.11.2020 *(day/mo/yr)*

Genehmigungsinhaber *License Holder*
Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Fertigungsstätte *Manufacturing Plant*
Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Prüfzeichen *Test Mark*

TÜVRheinland® CERTIFIED
Type Approved
Safety
Regular Production
Surveillance
www.tuv.com
ID 1111231996

Geprüft nach *Tested acc. to*
EN 60127-1:2006+A1+A2
EN 60127-7:2016
IEC 60127-1:2006+A1+A2
IEC 60127-7:2015

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

Fuse Link (Miniature fuse-links)

Type Designation	: 2410LT	7
Trademark	: Walter(Logo)	
Rated Voltage	: AC 250V	
Rated Current	: 3.15A, 5A	
T/I Characteristic	: see appendix 1	
Rated Breaking Capacity	: 50A	
Dimension	: 2.6mmx6.4mm, without pigtail	

Remark : The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA.

7

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH TÜVRheinland® Zertifizierstelle

G. Yin

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifikat *Certificate*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*
R 50485936

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0002

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum** *Date of Issue*
	05-YFC-NN20H561 002	23.02.2021 *(day/mo/yr)*

Genehmigungsinhaber *License Holder*
Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Fertigungsstätte *Manufacturing Plant*
Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Prüfzeichen *Test Mark*

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ID 1111231996

Geprüft nach *Tested acc. to*
EN 60127-1:2006+A1+A2
EN 60127-7:2016
IEC 60127-1:2006+A1+A2
IEC 60127-7:2015

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Fuse Link (Miniature fuse-links)

as page 0001

Addition

Rated Current : 4A 1

Remark : The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA.

1

ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH Zertifizierungsstelle

G. Yin

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

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Zertifikat *Certificate*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*
R 50485936

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0003

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum** *Date of Issue*
	05-RBI-NN20H561 003	29.07.2021 *(day/mo/yr)*

Genehmigungsinhaber *License Holder*
Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Fertigungsstätte *Manufacturing Plant*
Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
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ID 1111231996

Geprüft nach *Tested acc. to*
EN 60127-1:2006+A1+A2
EN 60127-7:2016
IEC 60127-1:2006+A1+A2
IEC 60127-7:2015

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Fuse Link (Miniature fuse-links)

as pages 0001-0002

Addition

Rated Current : 500mA, 1A, 1.5A, 2A, 3A, 3.5A 6

Remark : The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA.

6

ANLAGE (Appendix): 1.2

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

TÜV Rheinland LGA Products GmbH TÜVRheinland® Zertifizierungsstelle

Zertifizierungsstelle

C. Yin

10/020 d 04.08 ® TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

产品认证证书

证书编号：CQC20012273793

发证日期：2021 年 07 月 22 日

有效期至：2025 年 11 月 19 日

委托人名称及注册地址	苏州华德电子有限公司 江苏省吴江市汾湖经济技术开发区(芦墟)
制造商名称及注册地址	苏州华德电子有限公司 江苏省吴江市汾湖经济技术开发区(芦墟)
生产企业名称及生产地址	苏州华德电子有限公司 江苏省吴江汾湖经济开发区新黎路 99 号
产品名称和系列、规格、型号	特殊应用的小型熔断体 2410LT 500mA a.c. 250V、2410LT 1A a.c. 250V、2410LT 1.5A a.c. 250V、2410LT 2A a.c. 250V、2410LT 3A a.c. 250V、2410LT 3.15A a.c. 250V、2410LT 3.55A a.c. 250V、2410LT 4A a.c. 250V、2410LT 5A a.c. 250V(额定分断能力：50A，主要尺寸：6.4mm×2.6mm×2.6mm)
产品标准和技术要求	GB/T 9364.1-2015;GB/T 9364.7-2016
认证模式	产品型式试验+初次工厂检查+获证后监督

上述产品符合 CQC11-462125-2018 认证规则的要求，特发此证。

本证书为变更证书，证书首次颁发日期：2020 年 11 月 19 日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

可通过扫描下方二维码或登录国家认监委网站（www.cnca.gov.cn）查验证书信息

签发：谢肇煦

中国质量认证中心

CHINA QUALITY CERTIFICATION CENTRE 中国质量认证中心

C 0505047

CERTIFICATE OF PRODUCT CERTIFICATION

CERTIFICATE NO.: CQC20012273793

Valid from: Jul.22,2021

Valid until: Nov.19,2025

NAME AND REGISTERED ADDRESS OF THE APPLICANT	Suzhou Walter Electronic Co., Ltd. Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu
NAME AND REGISTERED ADDRESS OF THE MANUFACTURER	Suzhou Walter Electronic Co., Ltd. Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu
NAME AND LOCATION OF THE FACTORY	Suzhou Walter Electronic Co., Ltd. South of Xinli Road, Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu
PRODUCT NAME, MODEL AND SPECIFICATION	Miniature Fuse-links for Special applications 2410LT 500mA a.c. 250V、2410LT 1A a.c. 250V、2410LT 1.5A a.c. 250V、2410LT 2A a.c. 250V、2410LT 3A a.c. 250V、2410LT 3.15A a.c. 250V、2410LT 3.55A a.c. 250V、2410LT 4A a.c. 250V、2410LT 5A a.c. 250V(额定分断能力：50A，主要尺寸：6.4mm×2.6mm×2.6mm)
THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS	GB/T 9364.1-2015;GB/T 9364.7-2016
TYPE OF CERTIFICATION SCHEMES	Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC11-462125-2018.

Date of original issued: Nov.19,2020

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

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