

SHENZHEN LANSON ELECTRONICS CO., LTD.	PRODUCT	EDITION NO.	A/2
	SPECIFICATION	FILE NO.	LS/C-005-34
	MODEL: 24E	PAGE	PAGE 1 OF 4

### 1. 适用范围 Scope of Application

本产品适用于各种电子电路中起过电流保护作用。

This product is suitable for various kinds of electronic machines to work for over current protection.

### 2. 相关标准及认证 Relevant Standards and Certification

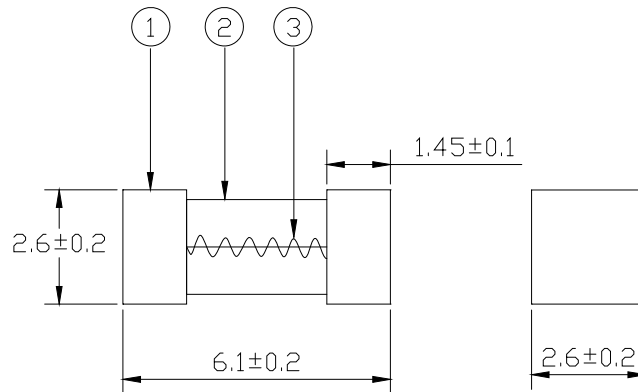
2.1 执行标准 Standard: UL248-1、UL248-14、GB/T9364.1-2015、GB/T9364.7-2016、EN60127-1、EN60127-7、IEC60127-1、IEC60127-7、K60127-1、KC60127-3

2.2 认证 Certification

认证 Certification	认证范围 Scope of Certification	证书编号 Certification No.
UL	100mA~20A	E221465
CQC	500mA~6.3A	CQC20012280803
VDE	500mA~3.15A	40053476
KTL	1A~2.5A	SU05026-16001

### 3. 结构尺寸及原材料明细 Structure Size and Material Detail

3.1 结构尺寸 Structure Size (unit: mm)



3.2 原材料明细 Material Detail、

编号 No.	零件名称 Part Name	材质 Material
①	端帽 End cap	黄铜表面镀银 Silver plated brass
②	陶瓷管 Ceramic tube	陶瓷 Ceramic
③	熔丝 Fuse element	合金线 Alloy

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#### 4. 标示 Mark

4.1 保险丝上需有下列标示: The fuse shall have the following marking:

良胜标志 Lanson's logo   
 额定电流 Ampere rating 1.6A

#### 5. 电气特性 Electrical Characteristics

5.1 实验条件: 所有测试环境温度为  $25\pm 5^{\circ}\text{C}$ 。

Test Condition: All electrical characteristics tests are conducted at an ambient temperature of  $25\pm 5^{\circ}\text{C}$ .

5.2 时间-电流特性

Time-Current Characteristics

额定电流的% % of ampere rating	熔断时间 Opening time
100%	4 hours Min
200%	<120 s

5.3 额定分断能力:

Interrupting Rating:

50 Amperes at 125 V /250 V/300V/350V AC (100mA ~20A)

50 Amperes at 125V DC (100mA ~20A)

#### 6. 环境特性 Environmental Characteristics

6.1 使用温度范围 Operating Temperature  
 $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$ 。

6.2 保存条件 Storage Conditions

相对湿度  $\leq 75\%$ , 可以存放 3 年。

Relative humidity  $\leq 75\%$ , store 3 years.

#### 7. 可靠性试验 Reliability Test

7.1 冷热冲击试验 Thermal Shock Test

MIL-STD-202G, Method 107G。

7.2 防潮湿试验 Moisture Resistance Test

MIL-STD-202G, Method 106G。

7.3 振动试验 Vibration Test

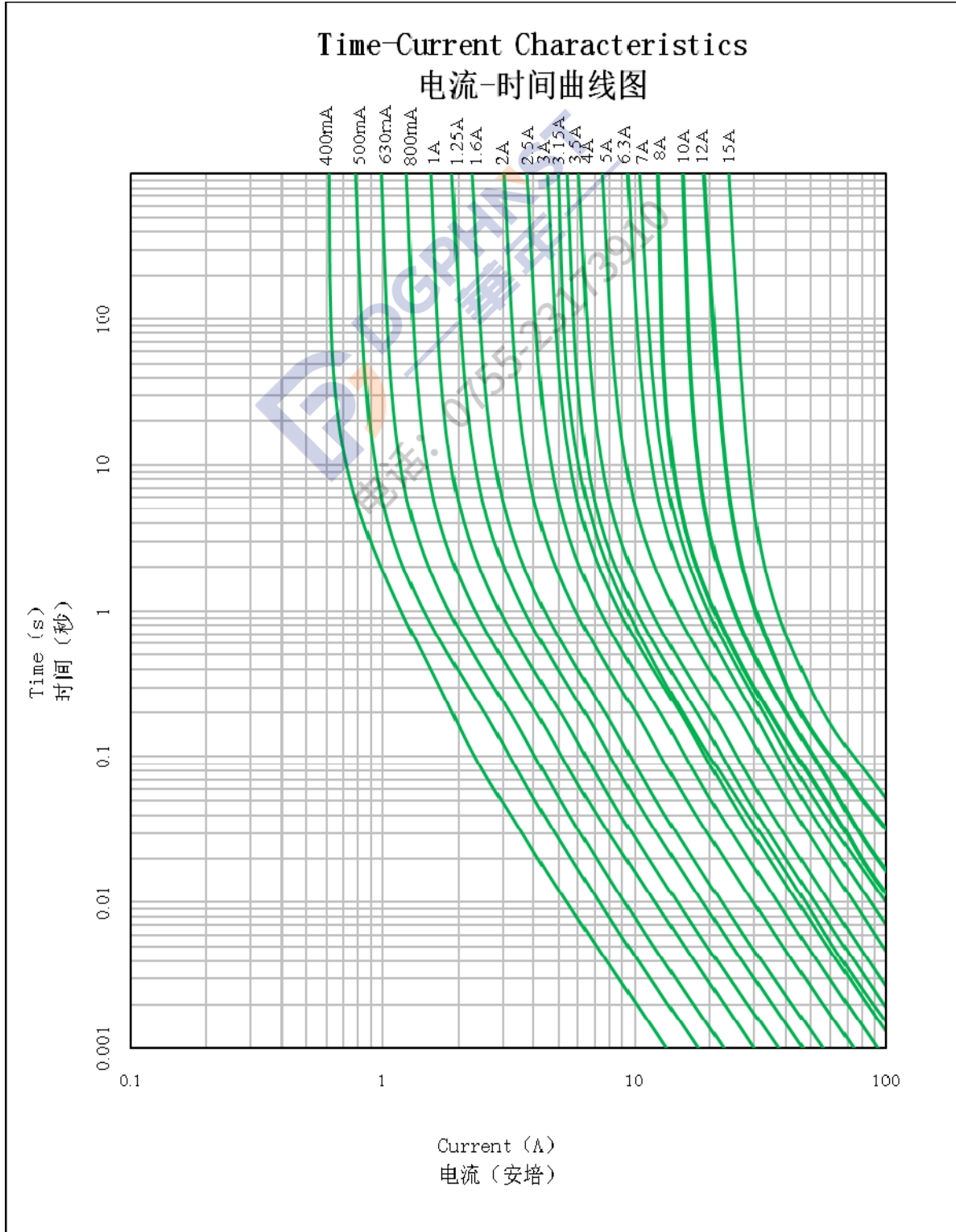
MIL-STD-202G, Method 201A。

7.4 可焊性试验 Solderability Test

MIL-STD-202G, Method 208H, IEC60127-2, IEC60068-2。

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### 8. 时间-电流曲线图 Time-Current Curve



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## 9. 焊锡参数 Soldering Parameters

### 9.1 回流焊 Reflow Soldering

9.1.1 温度 Temperature 260°C

9.1.2 时间 Time  $\leq 10$  seconds

9.1.3 最大可以承受三次回流焊

Capable for three times reflow

### 9.2 手工焊锡 Hand Soldering

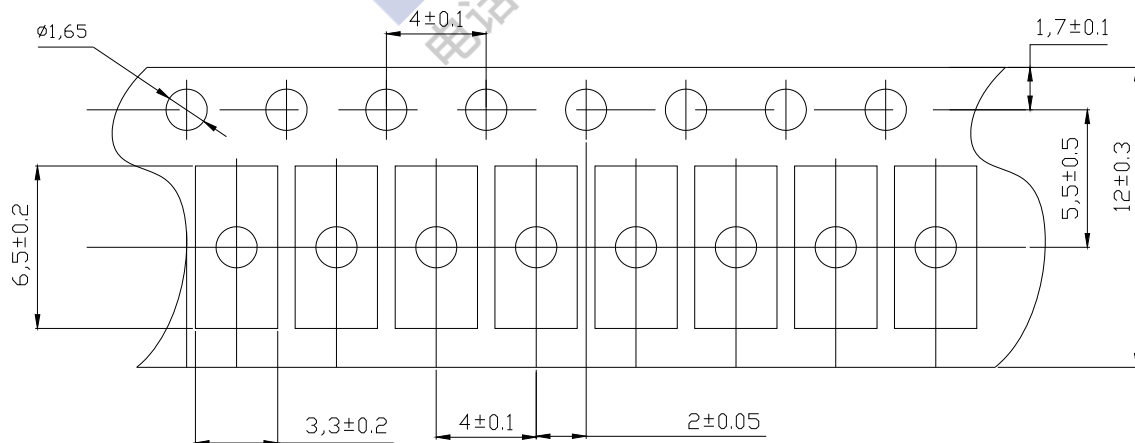
9.2.1 温度 Temperature 280°C

9.2.2 时间 Time  $\leq 3$  seconds

## 10. 包装 Packing

10.1 自动机器包装 1000PCS/卷。Automaton taped 1000PCS per reel.

10.2 包装尺寸 Packing Size (unit: mm)



## JDYX2.E221465 - Fuses, Supplemental - Component

## Fuses, Supplemental - Component

**SHENZHEN LANSON ELECTRONICS CO LTD**

A18TH BLDG

3 INDUSTRIAL ZONE

FUQIAO FUYONG TOWN, BAO'AN DISTRICT

SHENZHEN, GUANGDONG 518133 China

E221465

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
<b>Supplemental fuses</b>				
<b>5D</b>	5.2 x 20 (0.20 x 0.79)	4-7	125Vac	100
		4-7	250Vac	100
		8-10	125Vac	100
		8-10	250Vac	100
<b>5F</b>	5.2 x 20 (0.20 x 0.79)	0.125-0.315	125Vac	35
		0.125-0.315	250Vac	35
		0.4-0.8	125Vac	35
		0.4-0.8	250Vac	35
		1-6.3	125Vac	35
		1-6.3	250Vac	35
<b>5K</b>	5.2 x 20 (0.20 x 0.79)	0.2-0.8	125Vac	35
		0.2-0.8	250Vac	35
		1-6.3	125Vac	63
		1-6.3	250Vac	63
		8-15	125Vac	50
		8-15	250Vac	50
<b>5M</b>	5.2 x 20 (0.20 x 0.79)	0.5-0.8	250Vac	1500
		1.0-3.15	250Vac	1500

<b>12H</b>	3.2 x 1.6 x 0.65 (0.13 x 0.06 x 0.03)	0.1-5	125Vac	50
		0.1-5	125Vdc	50
		0.1-5	63Vdc	50
		6-10	32Vdc	100
		12-30	24Vdc	300
<b>Supplemental micro fuses: surface mount, cartridge enclosed</b>				
<b>24E</b>	6.1 x 2.6 x 2.6 (0.24 x 0.10 x 0.10)	0.1-20	350Vac	50
		0.1-20	300Vac	50
		0.1-20	250Vac	50
		0.1-20	125Vac	50
		0.1-20	125Vdc	50
<b>24F</b>	6.1 x 2.6 x 2.6 (0.24 x 0.10 x 0.10)	0.1-7	125Vac	50
		0.1-7	250Vac	50
		0.1-7	125Vdc	50
<b>32E</b>	10.25 x 3.2 x 3.2 (0.40 x 0.13 x 0.13)	0.05-60	250Vac	100
		0.05-60	125Vac	100
		0.05-60	100Vdc	600
		0.05-60	72Vdc	600
		0.05-60	60Vdc	600
		0.05-60	32Vdc	1000

Marking: Company name and model designation.

Last Updated on 2022-02-09

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# JDYX8.E221465 - Fuses, Supplemental Certified for Canada - Component

## Fuses, Supplemental Certified for Canada - Component

**SHENZHEN LANSON ELECTRONICS CO LTD**

A18TH BLDG

3 INDUSTRIAL ZONE

FUQIAO FUYONG TOWN, BAO'AN DISTRICT

SHENZHEN, GUANGDONG 518133 China

E221465

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
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<b>5K</b>	5.2 x 20 (0.20 x 0.79)	0.2-0.8	125Vac	35
		0.2-0.8	250Vac	35
		1-6.3	125Vac	63
		1-6.3	250Vac	63
		8-15	125Vac	50
		8-15	250Vac	50
<b>5M</b>	5.2 x 20 (0.20 x 0.79)	0.5-0.8	250Vac	1500

<b>12H</b>	3.2 x 1.6 x 0.65 (0.13 x 0.06 x 0.03)	0.1-5	125Vac	50
		0.1-5	125Vdc	50
		0.1-5	63Vdc	50
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		0.1-20	125Vac	50
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		0.05-60	125Vac	100
		0.05-60	100Vdc	600
		0.05-60	72Vdc	600
		0.05-60	60Vdc	600
		0.05-60	32Vdc	1000

Marking: Company name, model designation and the Recognized Component Mark for Canada,



Last Updated on 2022-02-09

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# 产品认证证书

证书编号: CQC20012280803

发证日期: 2021年01月07日

有效期至: 2026年01月07日

委托人名称 深圳市良胜电子有限公司  
及注册地址 深圳市宝安区福永街道桥头富桥第三工业区二期 A18 幢(第二、三层)

制造商名称 深圳市良胜电子有限公司  
及注册地址 深圳市宝安区福永街道桥头富桥第三工业区二期 A18 幢(第二、三层)

生产企业名称 深圳市良胜电子有限公司  
及生产地址 深圳市宝安区福永街道桥头富桥第三工业区二期 A18 幢(第二、三层)

产品名称和系列、规格、型号 特殊应用的小型熔断体  
24E 500mA a.c. 250V、24E 630mA a.c. 250V、24E 800mA a.c. 250V、24E 1A a.c. 250V、  
24E 1.25A a.c. 250V、24E 1.6A a.c. 250V、24E 2A a.c. 250V、24E 2.5A a.c. 250V、24E  
3.15A a.c. 250V、24E 4A a.c. 250V、24E 5A a.c. 250V、24E 6.3A a.c. 250V (额定分断能力: 35A  
或 10In, 取最大值, 主要尺寸: 6.1mm×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。  
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。

DGPHNST  
电话: 0755-23173910

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: 陆楠

## 中国质量认证中心



## ZEICHENGENEHMIGUNG MARKS APPROVAL

Shenzhen Lanson Electronics  
Co. Ltd.  
A18th Bldg., 3rd Industrial Zone  
Fuqiao Fuyong Town  
518103 Baoan District, Shenzhen  
Guangdong China

ist berechtigt, für ihr Produkt /  
*is authorized to use for their product*

**G-Sicherungseinsatz für besondere Anwendungen**  
***Miniature fuse-link for special applications***

die hier abgebildeten markenrechtlich geschützten Zeichen  
für die ab Blatt 2 aufgeführten Typen zu benutzen /  
*the legally protected Marks as shown below for the types referred to on page 2 ff.*



Geprüft und zertifiziert nach /  
*Tested and certified according to*

DIN EN 60127-1 (VDE 0820-1):2015-12; EN 60127-1:2006+A1:2011+A2:2015

DIN EN 60127-7 (VDE 0820-7):2016-09; EN 60127-7:2016

Das Produkt erfüllt auch die Anforderungen nach /  
*The product also fulfills the requirements of*

IEC 60127-1:2006

IEC 60127-1:2006/AMD1:2011

IEC 60127-1:2006/AMD2:2015

IEC 60127-7:2015

Aktenzeichen: 5002979-1170-0012 / 288950

File ref.:

Ausweis-Nr. 40053476

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /  
*further conditions see overleaf and following pages*

Offenbach, 2021-05-12

(letzte Änderung / updated 2021-11-29)

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VDE Testing and Certification Institute  
Zertifizierungsstelle / Certification

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VDE certificates are valid only when published on:

<http://www.vde.com/zertifikat>  
<http://www.vde.com/certificate>

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

Shenzhen Lanson Electronics Co. Ltd., A18th Bldg., 3rd Industrial Zone, Fuqiao Fuyong Town, 518103 BAOAN DISTRICT, SHENZHEN, Guangdong, CHINA

Aktenzeichen / File ref.

5002979-1170-0012 / 288950 / TL3 / EUL

letzte Änderung / updated

2021-11-29

Datum / Date

2021-05-12

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40053476.

*This supplement is only valid in conjunction with page 1 of the Certificate No. 40053476.*

## G-Sicherungseinsatz für besondere Anwendungen Miniature fuse-link for special applications

Typ(en) / Type(s)

**24E**

Bemessungsspannung  
Rated voltage

AC 250 V

Bemessungsstrom

500 mA; 630 mA; 800 mA; 1 A;  
1,25 A; 1,6 A; 2 A; 2,5 A; 3,15 A

Rated current

500 mA; 630 mA; 800 mA; 1 A;  
1,25 A; 1,6 A; 2 A; 2,5 A; 3,15 A

Bemessungsausschaltvermögen  
Rated breaking capacity

35 A bzw. 10 x In  
35 A resp. 10 x In

Anmerkung

Sicherungseinsätze zur Oberflächenmontage.  
Die Prüfspannung in Abschnitt 9.2 war DC 63 V.  
In Abschnitt 9.7 wurde Testmethode II angewendet.

Remark

Fuse-links for surface-mounting.  
The test voltage in clause 9.2 was DC 63 V.  
In clause 9.7 test method II was applied.

Weitere Angaben

siehe Anlage 600 vom 2021-11-29

Further information

see appendix 600 dated 2021-11-29

Dieser Zeichengenehmigungs-Ausweis bildet eine Grundlage für die EG-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten und bescheinigt die Konformität mit den grundlegenden Schutzanforderungen der **EG-Niederspannungsrichtlinie 2014/35/EU**.

*This Marks Approval is a basis for the EC Declaration of Conformity and the CE Marking by the manufacturer or his agent and proves the conformity with the essential safety requirements of the **EC Low-Voltage Directive 2014/35/EU**.*

VDE Prüf- und Zertifizierungsinstitut GmbH  
VDE Testing and Certification Institute  
Fachgebiet TL3  
Section TL3

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Shenzhen Lanson Electronics Co. Ltd., A18th Bldg., 3rd Industrial Zone, Fuqiao Fuyong Town, 518103 BAOAN DISTRICT, SHENZHEN, Guangdong, CHINA

Aktenzeichen / *File ref.*

5002979-1170-0012 / 288950 / TL3 / EUL

letzte Änderung / *updated*

2021-11-29

Datum / *Date*

2021-05-12

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40053476.

*This supplement is part of the Certificate No. 40053476.*

## G-Sicherungseinsatz für besondere Anwendungen *Miniature fuse-link for special applications*

### Fertigungsstätte(n)

#### *Place(s) of manufacture*

Referenz/*Reference*  
**30014703**

Shenzhen Lanson Electronics  
Co. Ltd.  
A18th Bldg., 3rd Industrial Zone  
Fuqiao Fuyong Town  
518103 BAOAN DISTRICT, SHENZHEN  
Guangdong  
CHINA

VDE Prüf- und Zertifizierungsinstitut GmbH

*VDE Testing and Certification Institute*

Fachgebiet TL3

*Section TL3*

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

Shenzhen Lanson Electronics Co. Ltd., A18th Bldg., 3rd Industrial Zone, Fuqiao Fuyong Town, 518103 BAOAN DISTRICT, SHENZHEN, Guangdong, CHINA

Aktenzeichen / File ref.

5002979-1170-0012 / 288950 / TL3 / EUL

letzte Änderung / updated

2021-11-29

Datum / Date

2021-05-12

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40053476.

*This supplement is only valid in conjunction with page 1 of the Certificate No. 40053476.*

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Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

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*The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).*

*The validity period of a VDE-GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE-GS-Mark Approval may be shortened.*

*Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.*

*The approval is solely signed on the first page.*



접수 번호 : 16-001270-01  
(Receipt No.)



# 전기용품안전인증서

## Electrical Appliances Safety Certificate

안전인증번호 (Certificate No.)	: SU05026-16001
제조사명 (Manufacturer)	: Shenzhen Lanson Electronics Co., Ltd.
대표자명 (President)	: Mr. Xianning Guo
제조공장의 주소 (Factory Address)	: A18th Bldg, 3rd Industrial Zone, Fuqiao Fuyong Town, Baoan District, Shenzhen, P.R.China
제품명 (Product)	: 퓨즈(Sub-miniature fuse-links)
기본모델명 (Basic Model)	: 24E T2AL 250V
정격 (Rating)	: 250 VAC 2 A 35 A
파생모델명 (Series Model)	: See the attachment 2
적용기준 (Standard)	: KC60127-3(2015-09), K60127-1(2011-12), IEC60127-7(2013-03)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2016 년 02 월 03 일  
Year month day



한국산업기술시험원장  
KOREA TESTING LABORATORY



※ 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부 :  
(Annex)
1. 안전관리부품 및 재질목록 (List of Critical Components)
  2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
  3. 전기용품안전인증의 변경 현황 (Revisions Status)

# 안전인증 및 안전확인을 받은 자의 유의사항

## Notification for recipient(license holder) of Safety Certification and Self-Regulatory Safety Confirmation

1. 본 인증서 또는 신고증명서는 기재된 제조공장에서 생산된 제품으로서 적용된 안전기준에 적합한 경우에 한하여 유효합니다. (This certificate or confirmation letter of declaration is valid only when the product meets the applied safety standard(s) and is manufactured from the manufacturing factory that appears on this certificate.)
2. 안전인증 또는 안전확인 마크는 본래의 의미와 다르게 사용자가 오해를 일으킬 수 있는 방법으로 광고, 카탈로그 등에 사용하면 인증정지 또는 취소의 사유가 됩니다. (Termination or cancellation of the certification may occur if the actual meaning of this safety certification mark(KC-mark) or self-regulatory safety confirmation mark (KC-mark) is misled to the public by false advertisement on a overstated catalog of the product.)
3. 다음과 같은 사유가 발생할 경우에는 사유가 발생한 날로부터 15일 이내에 안전인증기관에 안전인증 또는 안전확인 변경 신청을 하여 안전인증서 또는 안전확인 신고증명서를 재교부 받아야 합니다. (In case of the following events, this safety certificate or self-regulatory safety confirmation shall be reapplied within 15 days from the events and reissued for revision.)
  - 1) 제조자, 대표자, 주소 등 인증서 기재내용의 변경 (Revision in contents of the certificate such as factory name, factory address, president(CEO), etc)
  - 2) 파생모델의 추가, 변경 또는 삭제 (Adds, changes, or removals of derivative(minor series) model)
  - 3) 안전관리부품의 변경 또는 추가 (Adds or changes in critical components list)
  - 4) 인증서 또는 신고증명서의 분실 또는 훼손 (Losses or damages to this certificate or confirmation letter of declaration)
4. 안전인증 또는 안전확인을 받은 자는 다음 사항을 이행하여야 합니다. (The recipient(license holder) of safety certificate(KC-mark) or self-regulatory safety confirmation shall comply with the followings.)
  - 1) 안전인증표시 등 인증요건의 유지 관리 (Maintaining and managing the marking of safety certification and other certification requirements)
    - ※ 안전인증을 받기 이전 또는 정지, 취소된 이후 생산된 제품에 안전 표시를 하면 법에 의거 처벌을 받게 됨 (It will be punished by the Act if the certification mark is used before the issue(or after suspension or cancellation) of the certification)
  - 2) 자체검사의 실시 및 그 기록관리 (Self Product Verification and record keeping)
    - ※ 안전인증을 받은 자는 제품검사를 철저히 실시하여 제품의 품질이 안전기준에 미달되지 않도록 유의 (Recipients(license holder) of the safety certification (KC-mark) shall conduct products inspection strictly for products to comply with the safety standard.)
5. 안전인증을 받은 자는 전기용품안전 관리법 제4조 1항 및 동법 시행령 제3조에 의거 년1 회 이상 정기검사를 받아야 합니다. (Recipients(license holder) of the safety certification (KC-mark) shall receive routine(regular) factory inspection not less than once per year according to the Electrical Appliances Safety Control Act article 4-1 and article 3 of Enforcement decree of the same Act.)

(연락처: 인증심사센터, Tel 02-8601-366, 476)  
(Contact point: Certification Evaluation Center Tel: +82 2 8601 366, 476)



첨부 1 : 안전관리부품 및 재질목록  
List of Critical Components

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse element	Shenzhen Lanson Electronics Co., Ltd.	-	Alloy	-
Ceramic tube	Shenzhen Lanson Electronics Co., Ltd.	-	Ceramic	-
End cap	Shenzhen Lanson Electronics Co., Ltd.	-	Gold plated brass	-

유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

*As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiful listing or changing the items above, the certification revision shall be applied.*

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품안전관리법 제 8 조제 1 항의 규정에 의한 안전인증취소 사유가 됨을 유의하시기 바랍니다.

*The Safety Certification will be cancelled under the Safety Control Law for Electrical Appliances, Paragraph 1 of Article 8 if the contents of the Certification is altered without our authorization.*

FP511-10-00



**첨부 2 : 기본모델 · 파생모델의 내용**  
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
24E T1AL 250V	Rated current(1 A) is different
24E T1.25AL 250V	Rated current(1.25 A) is different
24E T1.5AL 250V	Rated current(1.5 A) is different
24E T1.6AL 250V	Rated current(1.6 A) is different
24E T2.5AL 250V	Rated current(2.5 A) is different
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report number: 16-001270-01 (2016.02.01.)</p> <p>2. Product Description</p> <ul style="list-style-type: none"> <li>- 250 VAC, 2 A</li> <li>- Rated Breaking capacity : 35 A</li> <li>- Standard sheet 1</li> <li>- Samples were tested as IEC 60127-7 standard sheet 1</li> </ul>	
<p><input type="checkbox"/> 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토담당자: 디지털산업본부 디지털남부사업센터 임화준 / (055) 791-3431</p> <p><input type="checkbox"/> <i>If you have any question on product testing, please contact the person below :</i> Job holder : Lighting Appliances &amp; Electrical Components Testing Center H.J Rim /+82 55 791-3431</p>	

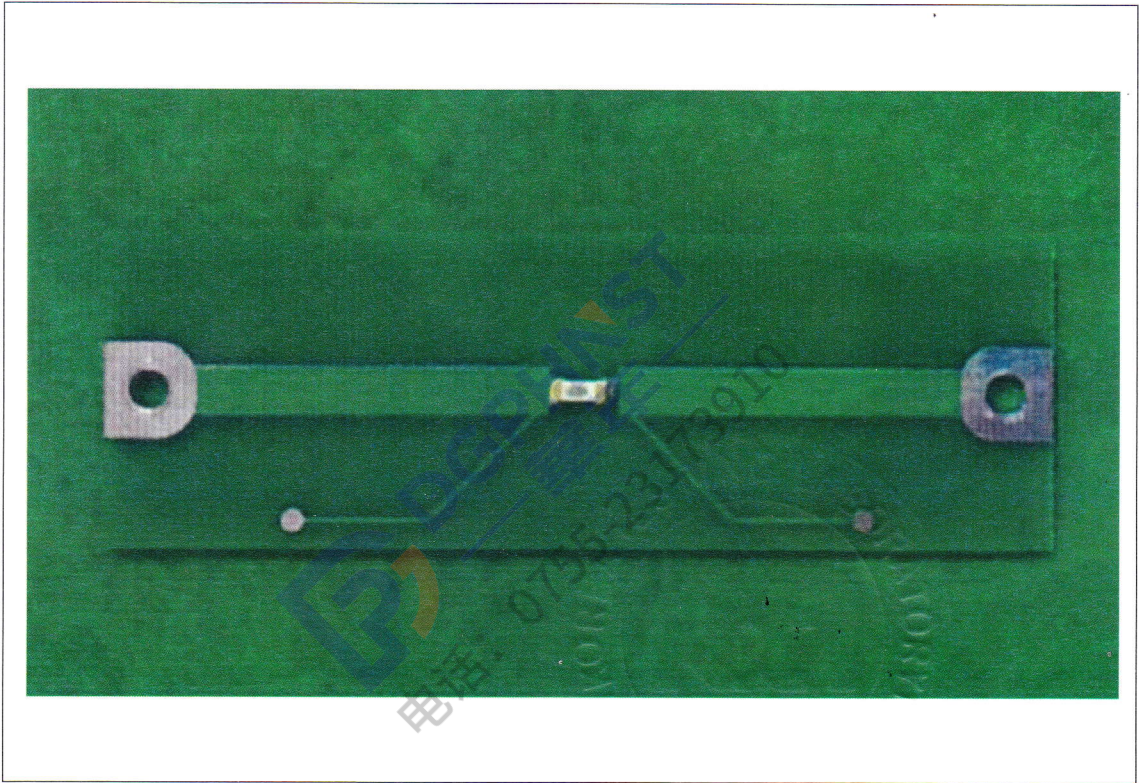
FP511-09-00

**첨부 3 : 전기용품안전인증의 변경 현황**  
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
Not applicable

FP511-11-00

□ 첨부 : 제품사진  
(Photos)



FG231-04-04