

# 产品规格书

## PRODUCT SPECIFICATION

客户名称:

CUSTOMER:

产品名称:

PRODUCT NAME:

保险丝 FUSE

型号规格:

MODEL DETAIL:

5N T25AH 250V 高分断型 (HIGH-BREAKING CAPACITY)

料号:

PART NO.:

5N2250AP

供应商:

SUPPLIER:

深圳市良胜电子有限公司

SHENZHEN LANSON ELECTRONICS CO., LTD.

地址:

ADDRESS:

深圳市宝安区福永街道富桥第三工业区 A18 栋

A18th Bldg, Fuqiao 3rd Industrial Zone, Fuyong Town. Baoan District, Shenzhen.

TEL:0755-29929709 29929711

Http:[www.lansonfuse.com](http://www.lansonfuse.com)

FAX:0755-29929812

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供方签章:

SUPPLIER:

日期:

DATE: 2024.09.09



需方签章:

CUSTOMER:

日期:

DATE:

SHENZHEN LANSON ELECTRONICS CO.,LTD.	PRODUCT	EDITION NO.	A/8
	SPECIFICATION	FILE NO.	LS/C- 005-20
	MODEL: 5N	PAGE	PAGE 1 OF 4

### 1. 适用范围 Scope of application

本产品适用于各种电子电器内的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.

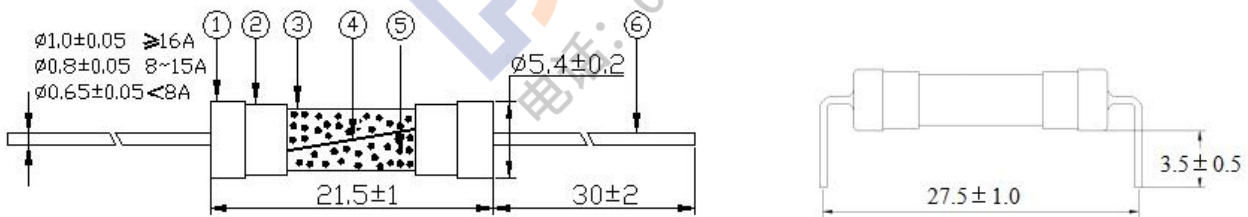
### 2. 相关标准及认证 Relevant Standards and Certification

2.1 执行标准 Standards: IEC60127-1 IEC60127-2 GB/T9364.1 GB/T9364.2

2.2 认证 Certification:

安规 Certification	认证范围 Scope of Certification	证书编号 Certification No.
UL	100mA~30A	E221465

### 3. 结构及尺寸 Structure and Size (unit: mm)



### 4. 原材料明细 Material Details

编号 No.	零件名称 Part Name	材质 Material
①	端帽 End cap	黄铜表面镀镍 Nickel plated brass
②	内帽 Inner cap	黄铜表面镀镍 Nickel plated brass
③	陶瓷管 Ceramic tube	陶瓷 Ceramic
④	熔丝 Fuse element	合金线 Alloy
⑤	填充物 Filling	硅砂 SiO <sub>2</sub>
⑥	引线 Lead wire	镀锡铜线 Tinned copper wire

### 5. 标示 Marking

保险丝两端铜帽上应印有下列标示: The fuse shall have the following marking :

A 帽: 良胜型号+延时型符号+额定电流+高分断符号+额定电压

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A Cap: Lanson's model+Electrical characteristics +Ampere rating + High-breaking Capacity Symbol +Voltage rating  
5N                      T                      25A                      H                      250V

B 帽: 良胜标志+认证符号

B Cap: Lanson's logo + Approved Symbol



## 6. 外观 Appearance

6.1 外观不应有显著的污点、裂纹。

There shall not be any remarkable stain, rust or crack on the appearances.

6.2 标示应该很容易辨识。

Marking shall be easily legible.

## 7. 机械特性 Mechanical characteristics

拉力强度试验 Tensile test

将保险丝固定好后, 对保险丝两端引线施加 10N 的轴向拉力, 持续 1 分钟。试验过后, 保险丝没有任何破损现象。

Exert the axial pulling force of 10N to the both ends of lead wire for 1 minute. After the test the fuse shall be no damage and loosening.

## 8. 电气特性 Electrical characteristics

8.1 实验条件 Test condition

所有测试环境温度均为 25±5℃。

All electrical characteristics tests are conducted at an ambient temperature of 25±5℃.

8.2 分断能力 Interrupting rating test

保险丝能承受的分断能力是 1500A。分断能力测试后测得保险丝的绝缘阻抗值大于 0.1MΩ。

The fuse interrupting capacity is 1500A. After interrupting, the insulation resistance between the fuse terminations shall be not less than 0.1MΩ.

8.3 时间-电流特性 Time-Current Characteristics

额定电流的% % of ampere rating	熔断时间 Opening time (100mA~800mA)	熔断时间 Opening time (1A~3.15A)	熔断时间 Opening time (4A~10A)	熔断时间 Opening time (12A~30A)
210%	30 min Max	30 min Max	30 min Max	30 min Max
275%	250 ms~80 s	750 ms~80 s	750 ms~80 s	750 ms~80 s
400%	50 ms~5 s	95 ms~5 s	150 ms~5 s	150 ms~5 s
1000%	5 ms ~150 ms	10 ms ~150 ms	20 ms ~150 ms	20 ms ~200 ms

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#### 8.4 耐久性测试 Endurance test

对保险丝通过相关标准规格单规定的 1.2 倍额定电流 1 小时,然后截断电流 15 分钟,将该循环重复 100 次。试验过后保险丝没有任何破损现象。

A 1.2 times the ampere rating specified in the relevant standard sheet is passed through the fuse for a period of 1h.The current is then switched off for a period of 15 minutes. This cycle is repeated 100 times. After the test the fuse shall be no damage and loosening.

#### 8.5 焊接参数 Soldering parameters

8.5.1 波峰焊 260℃,最大10秒,

Wave soldering 260 °C,10 sec. Maximum

8.5.2 手工焊 350℃,最大5秒,

Manual soldering 350℃, 5 sec. Maximum

#### 8.6 时间电流曲线图见附页 Time- current curve see attachment

### 9. 环境特性 Environmental characteristics

#### 9.1 使用温度范围 Operating Temperature

-55℃~125℃。

#### 9.2 保存条件 Storage Conditions

相对湿度≤75%，可存放 3 年。

Relative humidity≤75%, store 3 years .

### 10. 包装 Packing

10.1 500PCS/小袋、3 小袋/内盒、10 内盒/外箱(实际装箱依客户订单)。

500 fuses per plastic bag, 3 plastic bags per inner box, 10 inner boxes per external carton.

(The actual case in accordance with the customer order)

10.2 产品符合 RoHS HF 环保指令

The product is compliant with RoHS and HF Directive

附：承认书后附安规证书及环保报告

Appendix: The specification attached safety certificate and RoHS directive test report.

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附页 attachment



UL Product iQ™



## 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>				
5D	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
5F	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
5K	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
5M	5.2 x 20 (0.20 x 0.79)	0.5-0.8	250Vac	1500
		1.0-3.15	250Vac	1500

Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed				
5HV(P)	5.5 x 21 (0.22 x 0.83)	0.1-25	600Vac	200
		-	-	-
		0.1-25	500Vdc	300
		0.1-15	400Vdc	2000
Supplemental fuses: pigtail leads, time delay				
SBT	12.3 x 6.5 x 9.6 (0.48 x 0.26 x 0.38)	0.1-25	400Vac	300
		0.1-25	350Vac	300
		0.1-25	300Vac	300
		0.1-25	250Vac	300
		0.1-25	125Vac	300
Supplemental fuses: pigtail leads, time delay, cartridge enclosed				
3N	4 x 11 (0.16 x 0.43)	0.1-20	125Vac	300
		0.1-20	250Vac	300
Supplemental fuses: pigtail leads, time delay, filled-tube, cartridge enclosed				
5N(P)	5.4 x 21.5 (0.21 x 0.85)	0.1-15	250Vac	1500
		0.1-30	250Vac	1500
Supplemental fuses: time delay, filled-tube, cartridge enclosed				
5N	5.2 x 20 (0.20 x 0.79)	0.1-15	250Vac	1500
		0.1-30	250Vac	1500
Supplemental micro fuses				
06D	1.6 x 0.8 x 0.48 (0.06 x 0.03 x 0.02)	0.25-1	32Vdc	50
		1.25-5	32Vdc	35
06H	1.6 x 0.8 x 0.48 (0.06 x 0.03 x 0.02)	1-5	32Vdc	50
12B	3.2 x 1.6 x 0.65 (0.13 x 0.06 x 0.03)	0.25-1.5	125Vac	50
		0.25-1.5	125Vdc	50

UL Product iQ™



# 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)
<b>Supplemental fuses</b>				
5D	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
5F	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
5K	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
5M	5.2 x 20 (0.20 x 0.79)	0.5-0.8	250Vac	1500



		12-30	250Vac	150
<b>Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed</b>				
5HV(P)	5.5 x 21 (0.22 x 0.83)	0.1-25	600Vac	200
		-	-	-
		0.1-25	500Vdc	300
		0.1-15	400Vdc	2000
<b>Supplemental fuses: pigtail leads, time delay</b>				
SBT	12.3 x 6.5 x 9.6 (0.48 x 0.26 x 0.38)	0.1-25	400Vac	300
		0.1-25	350Vac	300
		0.1-25	300Vac	300
		0.1-25	250Vac	300
		0.1-25	125Vac	300
<b>Supplemental fuses: pigtail leads, time delay, cartridge enclosed</b>				
3N	4 x 11 (0.16 x 0.43)	0.1-20	125Vac	300
		0.1-20	250Vac	300
<b>Supplemental fuses: pigtail leads, time delay, filled-tube, cartridge enclosed</b>				
5N(P)	5.4 x 21.5 (0.21 x 0.85)	0.1-15	250Vac	1500
		0.1-30	250Vac	1500
<b>Supplemental fuses: time delay, filled-tube, cartridge enclosed</b>				
5N	5.2 x 20 (0.20 x 0.79)	0.1-15	250Vac	1500
		0.1-30	250Vac	1500
<b>Supplemental micro fuses</b>				
06D	1.6 x 0.8 x 0.48 (0.06 x 0.03 x 0.02)	0.25-1	32Vdc	50
		1.25-5	32Vdc	35
06H	1.6 x 0.8 x 0.48 (0.06 x 0.03 x 0.02)	1-5	32Vdc	50
12B	3.2 x 1.6 x 0.65 (0.13 x 0.06 x 0.03)	0.25-1.5	125Vac	50
		0.25-1.5	125Vdc	50

**Zertifikat**  
mit überwachter Konformität

**Certificate**  
of surveyed conformity

Zertifikat Nr. *Certificate No.*  
J 50604347

Blatt *Sheet*  
0001

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*  
05-xieb-CN23JAPK 001

Ausstellungsdatum

*Date of Issue*  
(day/mo/yr)

19.10.2023

**Genehmigungsinhaber *License Holder***

SHENZHEN LANSON ELECTRONICS  
CO., LTD.  
A18th Bldg, Fugiao 3rd Industrial  
Zone, Fuyong Town, Baoan District  
Shenzhen  
518103 Guangdong  
P.R. China

**Fertigungsstätte *Manufacturing Plant***

SHENZHEN LANSON ELECTRONICS  
CO., LTD.  
A18th Bldg, Fugiao 3rd Industrial  
Zone, Fuyong Town, Baoan District  
Shenzhen  
518103 Guangdong  
P.R. China

**Prüfzeichen *Test Mark***



**Geprüft nach *Tested acc. to***

EN 60127-1:2006+A1+A2  
EN 60127-7:2016

**Zertifiziertes Produkt (Geräteidentifikation)**

*Certified Product (Product Identification)*

**Lizenzentgelte - Einheit**

*License Fee - Unit*

(Miniature Fuse-links)

Type Designation	: 5N 5NP	12
Trademark	: LANSON (logo)	
Rated Voltage (Un)	: AC 250V	
Rated Current (In)	: 12.5A, 15A, 16A, 20A, 25A, 30A	
Time/Current Characteristic:	2.1In: ≤1800s, 2.75In: 750ms-80s 4In: 150ms-5s, 10In: 10ms-300ms	
Breaking Capacity	: 1500A (for 12.5A, 15A, 16A) 500A (for 20A, 25A, 30A)	
Dimension	: 5N: 5.2mm x 20mm without pigtail 5NP: 5.4mm x 21.5mm with pigtail	

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

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ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.  
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**

http://www.tuv.com/safety E-mail: markcheck@tuv.com  
Fax: +49 221 806-3935



**Zertifizierungsstelle**

*Sarah Chen*

**Sarah Chen**