



# 贴片压敏电阻器国际认证证书

## CERTIFICATE OF RECOGNIZED VARISTOR

(2026 年 3 月版本)

广东松田电子实业股份有限公司

GUANGDONG SONGTIAN ELECTRONIC INDUSTRIAL CO.,LTD.

[Http://www.songtian.cn](http://www.songtian.cn)

压敏电阻器安全认证标准及证书号：

| 序号 | 国家     |                                                                                     | 安规标准 |                                                                                | 证书号                 |
|----|--------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------|---------------------|
| 1  | 中国     |    | CQC  | GB/T10193-1997<br>GB/T10194-1997                                               | 3225:CQC25001467314 |
|    |        |                                                                                     |      | GB/T10193-1997<br>GB/T10194-1997<br>GB4943.1-2022<br>IEC61051-2:1991+And1:2009 | 4032:CQC25001467310 |
| 2  | 美国/加拿大 |  | UL   | UL1449                                                                         | E528563             |
| 3  | 德国     |  | TUV  | EN IEC61051-1:2018<br>IEC61051-2018<br>IEC61051-2:2021<br>IEC61051-2-2:1991    | B1171680003         |



# 产品认证证书

证书编号: CQC25001467314

发证日期: 2026 年 02 月 02 日  
有效期至: 2030 年 04 月 09 日

委托人名称 广东松田电子实业股份有限公司  
及注册地址 汕头保税区松田科技园东区、松田科技园西区

制造商名称 广东松田电子实业股份有限公司  
及注册地址 汕头保税区松田科技园东区、松田科技园西区

生产企业名称 广东松田电子实业股份有限公司  
及生产地址 汕头保税区松田科技园东区、松田科技园西区

产品名称和系列、 压敏电阻器 (贴片式)  
规格、型号 见附页

产品标准和技术要求 GB/T 10193-1997;GB/T 10194-1997

认证模式 型式试验+初始工厂检查+获证后监督

上述产品符合 CQC11-471551-2022 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: 2025 年 04 月 10 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

中国质量认证中心有限公司  
中国·北京·南四环西路188号9区 100070

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# 产品认证证书

证书编号: CQC25001467314

第 1 页 / 共 1 页

本证书及附件应同时使用, 信息查验说明见证书页

纸号:

| 型号规格     | 标称压敏电压<br>( V ) | 最大连续交流电压 A.C.<br>r.m.s(V) |
|----------|-----------------|---------------------------|
| 3225K201 | 200             | 130                       |
| 3225K221 | 220             | 140                       |
| 3225K241 | 240             | 150                       |
| 3225K271 | 270             | 175                       |
| 3225K301 | 300             | 190                       |
| 3225K331 | 330             | 210                       |
| 3225K361 | 360             | 230                       |
| 3225K391 | 390             | 250                       |
| 3225K431 | 430             | 275                       |
| 3225K471 | 470             | 300                       |
| 3225K511 | 510             | 320                       |
| 3225K561 | 560             | 350                       |
| 3225K621 | 620             | 385                       |
| 3225K681 | 680             | 420                       |
| 3225K751 | 750             | 460                       |
| 3225K781 | 780             | 485                       |
| 3225K821 | 820             | 510                       |

3225K(201 ~ 821), 压敏电压范围为 200V ~ 820V ; 最大连续交流电压: 130VAC ~ 510VAC ; K 表示压敏电压的允许偏差 K:  $\pm 10\%$ , 气候类别为 40/125/56。



中国质量认证中心  
CHINA QUALITY CERTIFICATION CENTRE



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产品名称和系列、规格、型号 压敏电阻器(贴片式)  
见附页

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| 4032K331 | 330           | 210                       |
| 4032K361 | 360           | 230                       |
| 4032K391 | 390           | 250                       |
| 4032K431 | 430           | 275                       |
| 4032K471 | 470           | 300                       |
| 4032K511 | 510           | 320                       |
| 4032K561 | 560           | 350                       |
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| 4032K681 | 680           | 420                       |
| 4032K751 | 750           | 460                       |
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中国质量认证中心  
CHINA QUALITY CERTIFICATION CENTRE

# Certificate of Compliance

**Certificate Number:**

E528563

**Report Reference:**

E528563-2025-05-08

**Issue Date:**

2025-05-13

Issued to:

**SHANTOU FREE TRADE ZONE SONGTIAN ELECTRONIC TECHNOLOGY CO LTD**

**Songtian Science and Technology Park**

**Free Trade Zone**

**Shantou Guangdong 515071 China**

This certificate confirms that representative samples of:

**SURGE-PROTECTIVE DEVICES - COMPONENT**

**See Addendum Page for Product Designation(s).**

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**UL 1449      Surge Protective Devices**  
**CSA C22.2 No. 269.5-17   Surge Protective Devices – Type 5 - Component**

Additional Information:

See UL Product iQ<sup>®</sup> at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.



David Piecuch

UL Mark Certification Program Owner



# CERTIFICATE OF COMPLIANCE

**Certificate number** E528563  
**Report reference** E528563-2025-05-08  
**Date** 2025-05-13

| Look for the UL Recognized Component Mark on the product.



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

# CERTIFICATE OF COMPLIANCE

**Certificate number** E528563  
**Report reference** E528563-20250508  
**Date** 2025-05-13

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Cat. Nos. 3225, followed by K, followed by 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 751, 781 or 821.

3225K201,3225K221,3225K241,3225K271,3225K301,3225K331,3225K361,3225K391,3225K431,3225K471,3225K511,3225K561,3225K621,3225K681,3225K751,3225K781,3225K821,4032K201,4032K221,4032K241,4032K271,4032K301,4032K331,4032K361,4032K391,4032K431,4032K471,4032K511,4032K561,4032K621,4032K681,4032K751,4032K781,4032K821,



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.



Product Service

# CERTIFICATE

No. B 117168 0003 Rev. 00

**Holder of  
Certificate:**

**Shantou Free Trade Zone Songtian  
Electronic Technology Co., Ltd.**

Songtian Science And Technology Park  
Free Trade Zone  
515071 Shantou, Guangdong  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:**

**Varistor**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:**

6810024025801

**Valid until:**

2030-04-09

**Date,**

2025-04-10

  
( Michael Xu )

# CERTIFICATE

No. B 117168 0003 Rev. 00

**Model(s):**

**3225K series, 4032K series**

**Description the rule of the**

**designation:** 3225 or 4032 K yyy

I II III

I – 3225 or 4032 means product size.

II – K stands for tolerance of nominal varistor voltage:  $\pm 10\%$ .

III – yyy can be 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, stands for nominal varistor voltage. For example, 201 stands for  $20 \times 10^1 = 200V$ .

## Parameters:

| Parameter concerns                           | Specification                       |
|----------------------------------------------|-------------------------------------|
| Insulation voltage:                          | AC2500V                             |
| Maximum continuous voltage:                  | Details see Electrical Rating table |
| Leakage current:                             | Details see Electrical Rating table |
| Nominal varistor voltage:                    | Details see Electrical Rating table |
| Reference current:                           | 1mA                                 |
| Clamping voltage:                            | Details see Electrical Rating table |
| Class current (8/20 $\mu s$ ):               | Details see Electrical Rating table |
| Maximum peak current (8/20 $\mu s$ , 1time): | Details see Electrical Rating table |
| Climatic category:                           | 40/125/56                           |
| Flame class:                                 | V-0                                 |

**Tested according to:**

EN IEC 61051-1:2018

IEC 61051-1:2018

IEC 61051-2:2021

IEC 61051-2-2:1991

# CERTIFICATE

No. B 117168 0003 Rev. 00

Electrical Rating table:

| Type     | Maximum continuous voltage(V) |     | Leakage Current ( $\mu$ A) (Max.) | Nominal varistor voltage (V) | Clamping Voltage (Max. V) | Class current (Max. A) | Maximum Peak Current (A) |                         | Energy (10/1000 $\mu$ s) (Max.) | Capacitance (Typical) pF |
|----------|-------------------------------|-----|-----------------------------------|------------------------------|---------------------------|------------------------|--------------------------|-------------------------|---------------------------------|--------------------------|
|          | A.C                           | D.C | $I_L$                             | $V_N$                        | $V_C$                     | 8/20 $\mu$ s $I_c$     | 8/20 $\mu$ s (1 times)   | 8/20 $\mu$ s (10 times) | J                               | C                        |
| 3225K201 | 130                           | 170 | 20                                | 200                          | 340                       | 10                     | 1750                     | 450                     | 17                              | 200                      |
| 3225K221 | 140                           | 180 | 20                                | 220                          | 360                       | 10                     | 1750                     | 450                     | 20                              | 180                      |
| 3225K241 | 150                           | 200 | 20                                | 240                          | 395                       | 10                     | 1750                     | 450                     | 21                              | 170                      |
| 3225K271 | 175                           | 225 | 20                                | 270                          | 455                       | 10                     | 1750                     | 450                     | 24                              | 150                      |
| 3225K301 | 190                           | 250 | 20                                | 300                          | 500                       | 10                     | 1750                     | 450                     | 26                              | 130                      |
| 3225K331 | 210                           | 275 | 20                                | 330                          | 550                       | 10                     | 1750                     | 450                     | 28                              | 125                      |
| 3225K361 | 230                           | 300 | 20                                | 360                          | 595                       | 10                     | 1750                     | 450                     | 32                              | 110                      |
| 3225K391 | 250                           | 320 | 20                                | 390                          | 650                       | 10                     | 1750                     | 450                     | 35                              | 100                      |
| 3225K431 | 275                           | 350 | 20                                | 430                          | 710                       | 10                     | 1750                     | 450                     | 40                              | 90                       |
| 3225K471 | 300                           | 385 | 20                                | 470                          | 775                       | 10                     | 1750                     | 450                     | 42                              | 80                       |
| 3225K511 | 320                           | 415 | 20                                | 510                          | 845                       | 10                     | 1750                     | 450                     | 45                              | 75                       |
| 3225K561 | 350                           | 460 | 20                                | 560                          | 925                       | 10                     | 1750                     | 450                     | 50                              | 70                       |
| 3225K621 | 385                           | 505 | 20                                | 620                          | 1025                      | 10                     | 1750                     | 450                     | 55                              | 65                       |
| 3225K681 | 420                           | 560 | 20                                | 680                          | 1120                      | 10                     | 1750                     | 450                     | 60                              | 60                       |
| 3225K751 | 460                           | 615 | 20                                | 750                          | 1240                      | 10                     | 1750                     | 450                     | 65                              | 55                       |
| 3225K781 | 485                           | 640 | 20                                | 780                          | 1290                      | 10                     | 1750                     | 450                     | 69                              | 55                       |
| 3225K821 | 510                           | 670 | 20                                | 820                          | 1355                      | 10                     | 1750                     | 450                     | 73                              | 50                       |
| 4032K201 | 130                           | 170 | 20                                | 200                          | 340                       | 25                     | 3500                     | 875                     | 35                              | 460                      |
| 4032K221 | 140                           | 180 | 20                                | 220                          | 360                       | 25                     | 3500                     | 875                     | 39                              | 435                      |
| 4032K241 | 150                           | 200 | 20                                | 240                          | 395                       | 25                     | 3500                     | 875                     | 42                              | 410                      |
| 4032K271 | 175                           | 225 | 20                                | 270                          | 455                       | 25                     | 3500                     | 875                     | 50                              | 395                      |
| 4032K301 | 190                           | 250 | 20                                | 300                          | 500                       | 25                     | 3500                     | 875                     | 55                              | 370                      |
| 4032K331 | 210                           | 275 | 20                                | 330                          | 550                       | 25                     | 3500                     | 875                     | 58                              | 340                      |
| 4032K361 | 230                           | 300 | 20                                | 360                          | 595                       | 25                     | 3500                     | 875                     | 65                              | 225                      |
| 4032K391 | 250                           | 320 | 20                                | 390                          | 650                       | 25                     | 3500                     | 875                     | 70                              | 210                      |
| 4032K431 | 275                           | 350 | 20                                | 430                          | 710                       | 25                     | 3500                     | 875                     | 80                              | 190                      |
| 4032K471 | 300                           | 385 | 20                                | 470                          | 775                       | 25                     | 3500                     | 875                     | 85                              | 180                      |
| 4032K511 | 320                           | 415 | 20                                | 510                          | 845                       | 25                     | 3500                     | 875                     | 90                              | 175                      |
| 4032K561 | 350                           | 460 | 20                                | 560                          | 925                       | 25                     | 3500                     | 875                     | 92                              | 160                      |
| 4032K621 | 385                           | 505 | 20                                | 620                          | 1025                      | 25                     | 3500                     | 875                     | 95                              | 145                      |
| 4032K681 | 420                           | 560 | 20                                | 680                          | 1120                      | 25                     | 3500                     | 875                     | 98                              | 130                      |
| 4032K751 | 460                           | 615 | 20                                | 750                          | 1240                      | 25                     | 3500                     | 875                     | 100                             | 115                      |
| 4032K781 | 485                           | 640 | 20                                | 780                          | 1290                      | 25                     | 3500                     | 875                     | 105                             | 115                      |
| 4032K821 | 510                           | 670 | 20                                | 820                          | 1355                      | 25                     | 3500                     | 875                     | 110                             | 105                      |

Remark:

Annex G.8.1 of IEC 62368-1:2018 and Annex Q of IEC 60950-1:2005/A2:2013 apply for 4032K series.