

Qualification Approval Certificate

Certificate Number: E1273/F **Issue Number:** 13 **Date:** 26 April 2010 **Page 1 of 2**

Approved to Detail Specification:

Number: CECC 42 201-006

Issue: 3 **Date:** October 2004

Generic Specification:

Number: IEC 61051-1: 1992

Sectional Specification:

Number: IEC 61051-2: 1992

Description of the component:

Surge Suppression Varistors.

Styles: LA/CIII series, ZA series, E (Ultra MOV) series, D series, S and SC series

(For Pb and Halogen Free versions see page 2 of this certificate)

Product Code(s): See ordering style example in Clause 3 of the detail specification

Manufactured by: **Dongguan Littelfuse Electronics Co Ltd**

Nanfang East Road

Beice

Humen Town, Dongguan

Guangdong

CHINA

Manufacturer's Approval Number: M1069 IECQ

Factory Code: LIL

Place(s) of Manufacture: Dongguan, China

Test Report(s):

TR001_Pb Free IECQ-CECC

TR005_SONG LONG

TR006_SONG LONG Pb free

TR012 and TR013

TR014

Date

June 2005

January 2006

January 2006

July 2009

January 2010

Date of acceptance by CB

23 June 2005

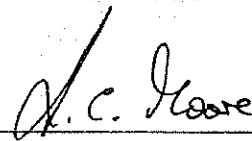
10 February 2006

10 February 2006

16 October 2009

26 April 2010

For and on behalf of BSI



IECQ Certification Body

Granting the right to use the Mark or Declaration of Conformity



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APPENDIX

Description of Qualification Approval
(As recorded on the IECQ on-line database www.iecq.org)

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Manufacturer: Dongguan Littelfuse Electronics Co Ltd

Surge suppression Varistors are available in LA/CIII, ZA, E, D, S and SC series in voltages as shown in the table opposite.

For full performance parameters of these devices see Table 2 of CECC 42 201-006 and/or the manufacturers data sheets.

These series of varistors are also available as a Pb Free device and have been qualified to CECC 42 201-006 using the additional criteria as published in Circular Letter 62. Pb Free devices are identified by the suffix "P" being added to the basic style reference.

Series LA/CIII, ZA and E are Halogen Free components. All of series LA/CIII and E plus the ZA values marked * with diameter 14 mm/ 20 mm and 25 mm have additionally been tested to and are compliant with IEC 60950-1 (Annex Q).

Examples as below:

| | | |
|-----------------------|-----------------------|---|
| LA Series: | V150LA5 V150LA5P | Standard varistors Pb Free varistors |
| CIII Series | V130LA5C V130LA5CP | Standard Varistors Pb Free Varistors |
| ZA Series: | V24ZA50 V24ZA50P | Standard varistors Pb Free varistors |
| E (Ultra MOV) Series: | V07E300 V07E300P | Standard varistors Pb Free varistors |
| D Series: | V20D230 V20D230P | Standard varistors Pb Free varistors |
| S Series | V14S150 V14S150P | Standard varistors Pb Free varistors |
| SC Series: | V14SC420 V14SC420P | Standard varistors Pb Free varistors |

| Voltage Identifier | Varistor Series | | | | | | |
|--------------------|-----------------|------|----|---|---|---|----|
| | LA | CIII | ZA | E | D | S | SC |
| 8 | | | ✓ | | | | |
| 12 | | | ✓ | | | | |
| 18 | | | ✓ | | | | |
| 22 | | | ✓ | | | | |
| 24 | | | ✓ | | | | |
| 27 | | | ✓ | | | | |
| 33 | | | ✓ | | | | |
| 39 | | | ✓ | | | | |
| 47 | | | ✓ | | | | |
| 56 | | | ✓ | | | | |
| 68 | | | ✓ | | | | |
| 82 | | | ✓ | | | | |
| 100 | | | ✓ | | | | |
| 115 | | | | ✓ | | ✓ | ✓ |
| 120 | | | ✓* | | | | |
| 130 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 140 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 150 | ✓ | ✓ | ✓* | ✓ | ✓ | ✓ | ✓ |
| 175 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 180 | | | ✓* | | | | |
| 230 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 250 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 275 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 300 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 320 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 385 | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| 420 | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| 440 | | | | ✓ | | | |
| 460 | ✓ | ✓ | | ✓ | | | |
| 480 | ✓ | ✓ | | ✓ | | | |
| 510 | ✓ | ✓ | | ✓ | | | |
| 550 | ✓ | ✓ | | ✓ | | | |
| 575 | ✓ | ✓ | | ✓ | | | |
| 625 | ✓ | ✓ | | ✓ | | | |
| 660 | ✓ | ✓ | | | | | |
| 680 | ✓ | ✓ | | | | | |
| 1000 | ✓ | | | | | | |

All of the above series of varistors have radial leads with a category e3 surface finish. (For category explanation see Circular Letter 62)

For and on behalf of BSI

A. C. Hoove
IECQ Certification Body



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