



IECQ Certificate of Conformity Qualification

IECQ Certificate No.:	IECQ-C BSI 14.0001	Issue No.:	6	Status:	Current
Supersedes:	IECQ-C BSI 14.0001 Issue 5	Issue Date:	2018/09/25	Org Issue:	2005/04/22
CB Reference No.:	E1273/F Issue 19	Expiration:	2021/09/30		

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The organization has developed and implemented procedures and related processes which have been assessed by the IECQ Certification Body issuing this certificate and found to comply with the applicable requirements of the IECQ Approved Component Scheme "Qualification Approval" which is in accordance with the Basic Rules IECQ 01 "Rules of Procedure", IECQ 03-1 "IECQ General Requirements for all Schemes" and IECQ 03-3 Annex C "IECQ Approved Components Scheme" of the IEC Quality Assessment System for Electronic Component (IECQ), and in respect of standard(s) or specification(s):

- **BS EN 61051-1 {2008}** Varistors for use in electronic equipment – Generic Specification
- **BS IEC 61051-2 {1992, +A1:2009}** Harmonized system of quality assessment for electric components. Varistors for use in electronic equipment. Sectional specification for surge suppression Varistors
- **CECC 42 201-006 {Iss.3, October 2004}** Surge suppression Varistors

Process Manual Reference: .

Details of Components/Assemblies/Materials:

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

-- Attached Schedule: E1273_F scope Issue 19.pdf --

Issued by the Certification Body (CB): BSI

Kitemark Court, Davy Avenue
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Authorized person:
Paul Turner

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The validity of this certificate is maintained through on-going surveillance audits by the IECQ CB issuing this certificate.
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Schedule of Scope to Certificate of Approval Approved Component - Qualification Approval

IECQ Certificate No.: IECQ-C BSI 14.0001

CB Certificate No.: E1273/F

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Surge suppression Varistors are available in LA/C III, 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/C III, ZA and E are Halogen Free components. All of series LA, C III, E and ZA values marked with * with diameters 14mm, 20mm and 25mm have additionally been tested to and are compliant with Annex Q of IEC 60950-1.

All ratings of E (UltraMOV) Series with diameter of 10mm have also been tested to and are compliant with Annex Q of IEC 60950-1.

Examples as below:

LA Series:	V 150LA 5 V 150LA 5P**	Standard varistors Pb Free varistors
C III Series:	V 130LA 5C V 130LA 5CP	Standard Varistors Pb Free Varistors
ZA Series:	V 24ZA 50 V 24ZA 50P	Standard varistors Pb Free varistors
E (Ultra MOV) Series:	V 07E 300 V 07E 300P	Standard varistors Pb Free varistors
D Series:	V 20D 230 V 20D 230P	Standard varistors Pb Free varistors
S Series:	V 14S 150 V 14S 150P	Standard varistors Pb Free varistors
SC Series:	V 14SC 420 V 14SC 420P	Standard varistors Pb Free varistors

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

Test report TRC 020 introduced an alternative resin material from AKZO NOBEL but this applies to the LA, C III, ZA and E (Ultra MOV) series only.

** A new Cu paste introduced by test report TRC 021 on Pb Free version of series LA only.

Voltage Identifier	Varistor Series						
	LA	C III	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	✓	✓					

Test Report(s):	Date	Date of acceptance by CB
TR001_Pb Free_IECQ-CECC	June 2005	23 June 2005
TR005_SONGLONG	January 2006	10 February 2006
TR006_SONGLONGPb free	January 2006	10 February 2006
TR012 and TR013	July 2009	16 October 2009
TR014	January 2010	26 April 2010
TRC 020	October 2013	10 January 2014
TRC 021	December 2013	13 March 2014
TRC 029	November 2015	20 January 2016

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