



IECQ Certificate of Conformity Qualification

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|-----------------------|--|-------------|------------|------------|------------|
| IECQ Certificate No.: | IECQ-C BSI 15.0013 | Issue No.: | 4 | Status: | Current |
| Supersedes: | IECQ-C BSI 15.0013 Issue 3 | Issue Date: | 2021/09/29 | Org Issue: | 2015/12/09 |
| CB Reference No.: | E1291/F | Expiration: | 2024/12/08 | | |

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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):

- For a complete list of standards and specifications see the attached schedule of scope.

Process Manual Reference: DG1-QA75-0008 & DG1-QA75-0055

Details of Components/Assemblies/Materials:

Surge Suppression Varistors
HMOV Series: Temperature Range -55 °C to +125 °C

-- Attached Schedule: E1291_F Scope Issue 4.pdf --

Issued by the Certification Body (CB): BSI

Kitemark Court, Davy Avenue
Knowlhill, Milton Keynes MK5 8PP
United Kingdom

Authorized person:
Paul Turner

PT

bsi.



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 Conformity

Approved Component – Qualification Approval

IECQ Certificate No.: IECQ-C BSI 15.0013

CB Certificate No.: E1291/F

Schedule Number: IECQ-C BSI 15.0013-S

Rev No.: 4

Revision Date: 2021/09/29

Page 1 of 2

| Approved Standard(s)/Specification(s) | Title |
|---------------------------------------|---|
| BS EN IEC 61051-1 {2018} | 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 |
| IEC 61051-2-2 {1991-02} | Varistors for use in electronic equipment - Part 2: Blank detail specification for zinc oxide surge suppression varistors. Assessment level E. |
| BS EN 60950-1 {2006 + A2 2013} | Information technology equipment. Safety. General requirements - Annex Q Components. |
| IEC 60950-1 {Ed2.2, 2013-05} | Information technology equipment – Safety – Part 1: Annex Q – Voltage Dependent Resistors (VDRs) |
| EN 62368-1:2014 {2014} | Audio/video, information and communication technology equipment - Part 1: Safety Requirements – Annex G Components |
| IEC 62368-1 {2018} | Audio/video, information and communication technology equipment - Part 1: Safety Requirements – Annex G Components |

| Test Report | Dated | Accepted by BSI |
|-------------|------------------|------------------|
| TRC028 | 10 November 2015 | 19 November 2015 |
| TRC041 | 9 September 2020 | 17 November 2020 |

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Page 2 of 2

HMOV are high temperature versions of Littelfuse TMOV ZA series and E series. Structurally identical but with a silicone coating instead of epoxy. Pb free versions only produced.

| Voltage Identifier | HMOV Series (<i>Littelfuse</i> Part Numbers) | | |
|--------------------|---|------------|------------|
| | 10 mm Dia. | 14 mm Dia. | 20 mm Dia. |
| 11 | V10H11P | V14H11P | V20H11P |
| 14 | V10H14P | V14H14P | V20H14P |
| 17 | V10H17P | V14H17P | V20H17P |
| 20 | V10H20P | V14H20P | V20H20P |
| 23 | V10H23P | V14H23P | V20H23P |
| 25 | V10H25P | V14H25P | V20H25P |
| 30 | V10H30P | V14H30P | V20H30P |
| 35 | V10H35P | V14H35P | V20H35P |
| 40 | V10H40P | V14H40P | V20H40P |
| 50 | V10H50P | V14H50P | V20H50P |
| 60 | V10H60P | V14H60P | V20H60P |
| 75 | V10H75P | V14H75P | V20H75P |
| 95 | V10H95P | V14H95P | V20H95P |
| 115 | V10H115P | V14H115P | V20H115P |
| 130 | V10H130P | V14H130P | V20H130P |
| 140 | V10H140P | V14H140P | V20H140P |
| 150 | V10H150P | V14H150P | V20H150P |
| 175 | V10H175P | V14H175P | V20H175P |
| 230 | V10H230P | V14H230P | V20H230P |
| 250 | V10H250P | V14H250P | V20H250P |
| 275 | V10H275P | V14H275P | V20H275P |
| 300 | V10H300P | V14H300P | V20H300P |
| 320 | V10H320P | V14H320P | V20H320P |
| 385 | V10H385P | V14H385P | V20H385P |
| 420 | V10H420P | V14H420P | V20H420P |
| 440 | V10H440P | V14H440P | V20H440P |
| 460 | V10H460P | V14H460P | V20H460P |
| 510 | V10H510P | V14H510P | V20H510P |
| 550 | V10H550P | V14H550P | V20H550P |
| 625 | V10H625P | V14H625P | V20H625P |

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