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GB/T 2423.55-2006 / IEC 60068-2-75:1997

Environmental testing for electric and electronic products -

Part 2: Test methods - Test Eh: Hammer tests

电工电子产品环境试验 第2部分：试验方法 试验 Eh：锤击试验

(IEC 60068-2-75:1997, Environmental testing – Part 2: Tests – Test Eh:

Hammer tests, IDT)

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Foreword

GB/T 2423 “Environmental testing for electric and electronic products - Part 2: Test methods” is divided into several parts according to the test methods.

This part is Part 55 of GB/T 2423.

This part is identical to IEC 60068-2-75:1997 “Environmental testing – Part 2: Tests – Test Eh: Hammer tests” (English version).

This part is the first edition (IEC 60068-2-75 is the first edition).

This part is equivalent to IEC 60068-2-75, which is determined by IEC Guide 104 as the basic safety standard.

This part is equivalent to IEC 60068-2-75, which is determined by IEC Guide 108 as the basic environmental testing standard to be published.

For convenience of use, this Part makes the following editorial changes:

- a) Change the word “this part of IEC 60068” to “this part of GB/T 2423” or “this part”;
- b) Use the decimal point “.” to replace the comma “,” as a decimal point;
- c) Delete the foreword of the international standard;
- d) Change this part to the current name, in order to be consistent with the names of other parts of the existing GB/T 2423;
- e) There is a 5-year lag between this part and the publication of the first edition of IEC 60068-2-75 in the process of national standard conversion. The 5-year transitional period was lost. For ease of use, add the version number and publication date to the statement “Remove the values in brackets 5 years after the publication of the first edition of IEC 60068-2-75: 1997 in August 1997”, and keep it consistent with the original text.

Some of the normative documents cited in this part have not yet been converted into equivalent national standards, and are still listed with IEC/ISO numbers when these normative documents are cited.

Annex A and Annex B of this part are normative annexes; Annex C, Annex D and Annex E are informative annexes.

This part is proposed by the Fifth Institute of Electronics, Ministry of Information Industry.

Environmental testing for electric and electronic products -

Part 2: Test methods - Test Eh: Hammer tests

1 Scope

This part of GB/T 2423 provides three equivalent test methods for impacting the sample under the specified severity conditions including the number of impacts, energy and direction of impact. It applies to the assessment of the robustness of the product according to the electrical safety clause.

This part covers energy levels ranging from 0.14 joules (J) to 50 joules (J).

Three types of test apparatus are applicable to perform these tests. Annex C provides some guidance as to this aspect.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part. For dated references, all subsequent amendments (not including errata content) or revisions do not apply to this part. Parties to agreements based on this part should investigate the possibility of applying the most recent editions of the standards listed below. For undated references, the latest edition applies to this part.

GB/T 2421-1999, Environmental testing for electric and electronic products - Part 1: General and guidance (idt IEC 60068-1:1988)

GB/T 4796-2001, Classification of environmental conditions - Part 1: Environmental parameters and their severities (idt IEC 60721-1: 1990, Amendment 1, 1992)

ISO 1052: 1982, Steels for general engineering purposes

ISO 2039-2: 1987, Plastics - Determination of hardness - Part 2: Rockwell hardness

ISO 2041: 1990, Vibration and shock - Vocabulary

ISO 2768-1: 1989, General tolerances - Part 1: Tolerances for linear and angular dimensions without individual tolerances indicated

ISO 6508: 1986, Metallic materials - Hardness test - Rockwell test (scales A-B-C-D-E-F-G-H-K)

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