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GB/T 2423.43-2008 / IEC 60068-2-47:2005

Replacing GB/T 2423.43-1995

Environmental testing for electric and electronic products

**- Part 2: Test methods - Mounting of specimens for
vibration, impact and similar dynamic tests**

(IEC 60068-2-47:2005: Environmental testing - Part 2-47: Test methods -
Mounting of specimens for vibration, impact and similar dynamic 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 test methods.

This Part is the 43rd Part of GB/T 2423.

This Part identically adopts IEC 60068-2-47:2005 (Ed 3.0) *Environmental testing - Part 2-47: Tests - Mounting of specimens for vibration, impact and similar dynamic tests*.

For easy use, this Part makes the following editorial modifications:

- a) “This Part of IEC 60068-2” was modified to “This Part of GB/T 2423” or “This Part”;
- b) used decimal point “.” to replace “,” which was used as decimal point;
- c) deleted the foreword of IEC 60068-2;
- d) modified this Part as the present name so as to be consistent with names of other parts of GB/T 2423.

This Part replaces GB/T 2423.43-1995 *Environmental testing for electric and electronic products Part 2: test methods Mounting of components, equipment and other articles for dynamic tests including shock(Ea), bump(Eb), vibration(Fc and Fd) and steady-state acceleration(Ga) and guidance*.

This differences between this Part and versions of standard substituted by this Part are as follows:

- a) this Part added the installation of packaging products and the technical content that single-degree-of-freedom system is responded by the half-sine pulse; added and supplemented the content of the previous editions;
- b) added Clause 7 Mounting, where the specimen is a packaged product;
- c) added Annex B Guidance on packaged products;
- d) added Annex C Response of a single degree of freedom (SDOF) system to a half-sine shock pulse;
- e) made great modification to Annex A.

Annex A, Annex B, Annex C of this Part are informative.

This Part was proposed by China Electrical Equipment Industry Association.

This Part shall be under the jurisdiction of National Technical Committee on Environmental Conditions and Environmental Testing of Electric and Electronic Products of Standardization Administration of China (SAC/TC 8).

The drafting organizations of this Part: Guangzhou University, Ministry of Information Industry, the Fifth Institute of Electronics, Shanghai Institute of Quality Supervision, Inspection and Technology, Beijing University of Aeronautics and Astronautics, Suzhou Test Instrument Factory, Beijing Zhongyuan Micro Instrument Company.

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Version of standard substituted by this Part is:

- GB/T 2423.43-1995.

Environmental testing for electric and electronic products

- Part 2: Test methods - Mounting of specimens for vibration, impact and similar dynamic tests

1 Scope

This Part of GB/T 2423 provides methods for mounting products, whether packaged or unpackaged, as well as mounting requirements for equipment and other articles, for the series of dynamic tests in GB/T 2423, that is impact (Test E), vibration (Test F) and acceleration, steady-state (Test G). When they are fastened to the test apparatus and subjected to these tests, whether packaged or unpackaged, they are referred to as specimens.

2 Normative references

The following standards contain the provisions which, through reference in this Part of GB/T 2423, constitute the provisions of this Part. For dated references, subsequent amendments (excluding corrections) or revisions do not apply to this Part. However, the parties who enter into agreement based on this Part are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply 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 2423.39-1990 *Basic environmental testing procedures for electric and electronic products - Test Ee: Bounce*

GB/T 2298-1991 *Mechanical vibration and shock - Terminology* (neq ISO 2041:1990)

3 Terms and definitions

For the purposes of this document, the terms and definitions used in GB/T 2298-1991 and GB/T 2423 apply.

3.1 package

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