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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 14860.1-2012

Replacing GB/T 14860-1993

**Transformers and inductors for use in electronic and
telecommunication equipment -- Part 1: Generic specification**

电子和通信设备用变压器和电感器 第1部分：通用规范

(English Translation)

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Foreword

GB/T 14860 "in electronic and telecommunication equipment - transformers and inductors for" approval procedure is based on the ability to assess the quality of the electronic and communications equipment Transformers and inductors standard, divided into the following sections.

--- Part 1. Generic specification;

--- Part 2. Evaluation of the capability approval procedure quality specification for signal transformers;

--- Part 3. Evaluation of the capability approval procedure quality specification for power transformers;

--- Part 4. Evaluation of the quality of the capability approval procedure switch specification for power transformers;

--- Part 5. Evaluation of the capability approval procedure quality specification for pulse transformers;

--- Part 6. the capability approval procedure inductors of assessed quality specification;

--- Part 7. Evaluation of the quality of the capability approval procedure of the high-frequency inductors and intermediate frequency transformers.

This section GB/T 14860 Part 1.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 14860-1993 "telecommunication and electronic equipment - Generic specification for transformers and inductors." Section compared with the GB/T 14860-1993 The main changes are as follows.

- Normative references are part of the standard were refined, and the existing part of the corresponding standard (see Chapter 2);
- Added "specific parameters AQL" (see 3.1.1);
- Added "General considerations" (see 4.1);
- Remove the "packaging components and mark" in section identifies the contents (see 4.2);
- Added "structurally similar elements" (see 4.3);
- Of "deferred delivery" content has been adjusted (see 4.4);
- "Standard ratings and characteristics" in the ambient temperature increases the tolerance requirements, steady acceleration amplitude deleted 19.6m/s², low pressure Test conditions have also been adjusted (see 4.6);
- To "test" a chapter for a more substantial compression (see Chapter 5);
- "Ability to approve the release of" increased "ability to explain summary" (see 6.5.2);
- The Appendix B from the "factory of the summary report format examples of" content adjusted to "the ability to explain summary (included in the QC001005 A) Format "(see Appendix C).

This section uses redrafted Law Amendment uses 61248-1 IEC .1996 Part 1 "in electronic and telecommunication equipment - transformers and inductors Score. Generic specification. " this part of IEC 61248-1:1996, compared with more adjustment in the structure, listed in Appendix A of this part of IEC 61248-1.

Reg control list number 1996.

This part of IEC 61248-1:1996 compared to the main content is modified.

- The IEC 61248-1. IEC 60068 Environmental testing standards referenced in 1996 using our corresponding GB/T 2423 in place of national standards;
- The IEC 60410. 1973 "counter check sampling plan and procedures" with the GB/T 2828.1-2003 "Sampling procedures for inspection Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan "instead.

This section also made the following editorial changes.

- Remove the IEC standard "Introduction";
- Deleted the reference document IEC 60651. 1979, IEC 60695, IEC QC001004 other

standards;

--- Remove the IEC standard index;

--- Abbreviation CQCs ability to identify elements CQC;

--- Remove the International Standard Details Standard Number example manufacturers;

--- The relevant test conditions and test schedule re-numbered; the test flow chart from Table 1, Table 3, were changed to 1, 2, and its format has been rearranged, merged related text and 6.4.2.2.

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This part of the National Magnetic components and ferrite materials Standardization Technical Committee (SAC/TC89) centralized.

This section drafted by. China Electronics Technology Group Corporation ninth Institute, Shanghai Yaming Lighting Co., Ltd.

1 Scope

GB/T 14860 in this Part is divided into general specification, which defines the transformers and inductors manufacturer in order to obtain based on IEC QQC001002.

Capacity 1986 11.7 for the approval and must comply with the requirements for test program evaluation component capabilities. This section applies to communications and electricity Child equipment transformers and inductors, including multi-phase transformer.

This section also provides identification, delayed delivery and ordering requirements, and gives the standard ratings and characteristics. In addition, the provisions of the Order Component quality consistency test.

NOTE: transformers and inductors as part of the main body of the device may include other elements necessary for the work, for example, constant voltage transformer winding and tuning related Capacitors.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 1094.1-1996 Power transformers - Part 1. General (eqv IEC 60076-1:1993) GB/T 2423.1-2008 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold (IEC 60068-2-1:2007, IDT) GB/T 2423.2-2008 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat (IEC 60068-2-2:2007,

IDT) GB/T 2423.3-2006 Environmental testing for electric and electronic products Part 2. Test methods - Test Cab. Damp heat test (IEC 60068-2-78:2001, IDT) GB/T 2423.5-1995 Environmental testing for electric and electronic products Part 2. Test methods Test Ea and guidance. Shock (idt IEC 60068-2-27. 1987) GB/T 2423.6-1995 Environmental testing for electric and electronic products Part 2. Test methods - Test Eb and guidance. Bump (idt IEC 60068-2-29. 1987) GB/T 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) (IEC 60068-2-6:1995, IDT) GB/T 2423.15-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test Ga and guidance. Acceleration, steady state Degree (IEC 60068-2-7. 1986, IDT) GB/T 2423.21-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test M. Low air pressure (IEC 60068-2-13. 1983, IDT) GB/T 2423.22-2002 Environmental testing for electric and electronic products Part 2. Test methods - Test N. Temperature change (IEC 60068-2-14. 1984, IDT) GB/T 2423.23-1995 Environmental testing for electric and electronic products Test Q. Sealing GB/T 2423.28-2005 Electronic and Electrical Products Environmental Testing Part 2. Test methods - Test T. Soldering (IEC 60068-2-20. 1979, IDT) GB/T 2423.60-2008 Electronic and Electrical Products Environmental Testing Part 2. Test methods - Test U. Robustness of terminations and integral security