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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Ferrite cores – Dimensions – Part 2: Pot-cores for use in telecommunications, power supply, and filter applications

Noyaux ferrites – Dimensions – Partie 2: Circuits magnétiques en pots utilisés dans des applications de télécommunications, d'alimentation électrique et de filtre

IEC 62317-2:2010

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FOREWORD

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International Standard IEC 62317-2 has been prepared by technical committee 51: Magnetic components and ferrite materials.

According to IEC 62317-1 clause 3-b) and Table A.1 in Annex A, the publication number of IEC 60133 should be updated to IEC 62317-2 at the time of new revision of this standard.

This first edition cancels and replaces the fourth edition of IEC 60133 published in 2000.

This International Standard constitutes a technical revision of IEC 60133.

The main changes with respect to the previous edition of IEC 60133 are listed below:

– changed "e dimension" of P4,6/3,1 in Table 6 from 3,20 Max. to 3,40 Max.;
– removed "derived standards" from Annex B (informative) in the fourth edition of IEC 60133;

– changed the name of core parts in Subclause 3.1.2 from “Grooves” to “Wire-ways” in accordance with IEC 62317-1 Subclause 5.6.

The text of this standard is based on the following documents:

FDIS	Report on voting
51/980/FDIS	51/982/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62317 series, under the general title *Ferrite cores–Dimensions,* can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

FERRITE CORES – DIMENSIONS –

Part 2: Pot-cores for use in telecommunications, power supply, and filter applications

1 Scope

This part of IEC 62317 specifies the dimensions that are of importance for mechanical interchangeability for a preferred range of pot-cores made of ferrite, and the dimensional limits for coil formers to be used with them.

The selection of core sizes for this standard is based on the philosophy of including those sizes which are industrial standards, either by inclusion in a national standard, or by broad-based use in industry. See IEC 62317-1 for more detail concerning the philosophy of selecting core sizes to be included.

The general considerations upon which the design of this range of cores is based are given in Annex A.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60205, *Calculation of the effective parameters of magnetic piece parts*

IEC 62317-1, *Ferrite cores – Dimensions – Part 1: General specification*

3 Primary standards

3.1 Dimensions of pot-cores

Compliance with the following requirements ensures mechanical interchangeability of complete assemblies and wound coil formers.

3.1.1 Principal dimensions

The principal dimensions of pot-cores shall be as given in Table 1, Figure 1 and Figure 2.