

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Ferrite cores – Dimensions –
Part 14: EFD-cores for use in power supply applications**

**Noyaux ferrites – Dimensions –
Partie 14: Noyaux EFD utilisés dans des applications d'alimentation électrique**



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland
Email: inmail@iec.ch
Web: www.iec.ch

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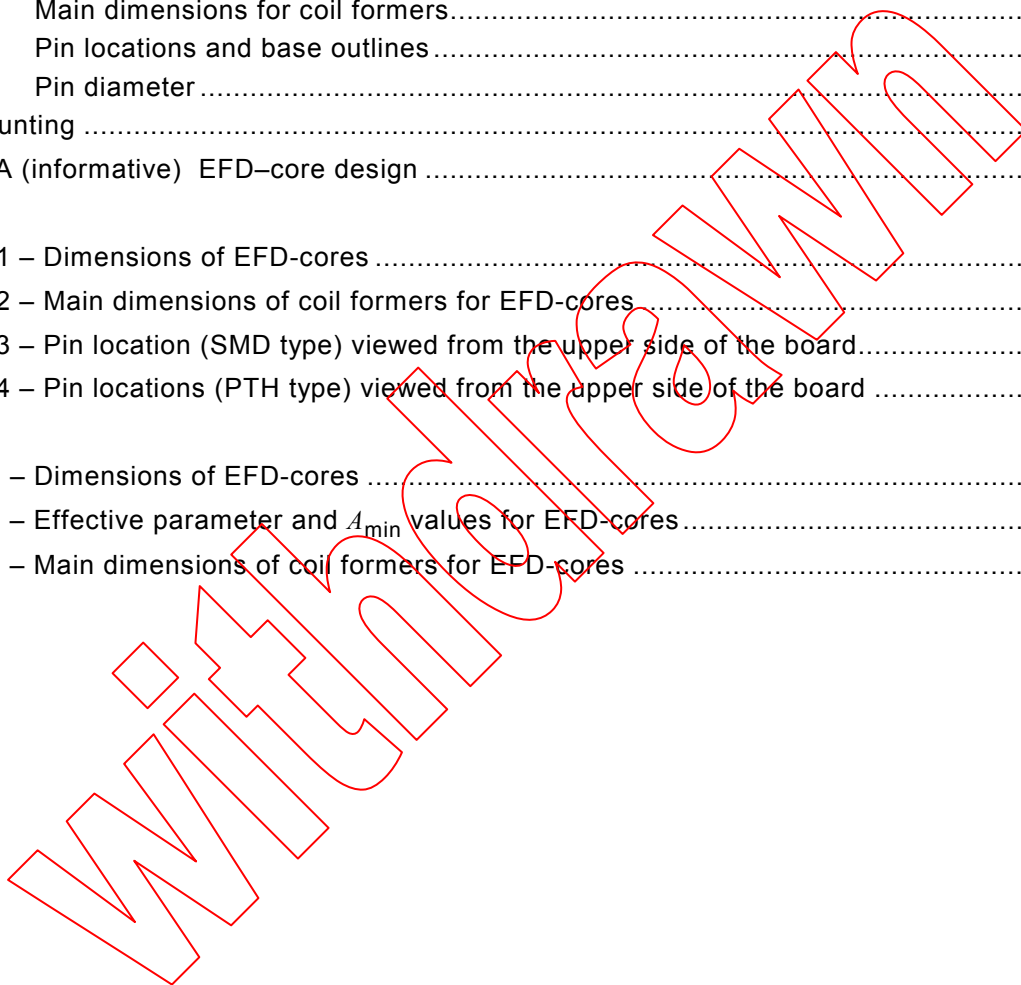


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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FERRITE CORES –
DIMENSIONS –**
Part 14: EFD-cores for use in power supply applications**FOREWORD**

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International Standard IEC 62317-14 has been prepared IEC technical committee 51: Magnetic components and ferrite materials.

This bilingual version, published in 2009-02, corresponds to the English version.

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

FDIS	Report on voting
51/934/FDIS	51/938/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.

The French version of this standard has not been voted upon.

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 maintenance result 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- withdrawn,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.

Withdrawn

FERRITE CORES – DIMENSIONS –

Part 14: EFD-cores for use in power supply applications

1 Scope

This part of IEC 62317 specifies the dimensions that are of importance for mechanical interchangeability for a preferred range of EFD-cores, the essential dimensions of coil formers to be used with them, and the effective parameter values to be used in calculations involving 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 national standards, 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 that the design of this range of cores is based upon 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

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

3.1 Dimensions of EFD-cores

3.1.1 Principal dimensions

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