

INTERNATIONAL STANDARD

IEC 61185

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Ferrite cores (ETD-cores) intended for use in power supply applications – Dimensions

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FERRITE CORES (ETD-CORES) INTENDED
FOR USE IN POWER SUPPLY APPLICATIONS –
DIMENSIONS**

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International Standard IEC 61185 has been prepared by IEC technical committee 51: Magnetic components and ferrite materials.

This second edition cancels and replaces the first edition published in 1992 and its amendment 1 (1995).

The main changes with respect to the previous edition consist in combining it with the amendment.

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

FDIS	Report on voting
51/818FDIS	51/826/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.

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- withdrawn;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.

A bilingual version of this publication may be issued at a later date.

FERRITE CORES (ETD-CORES) INTENDED FOR USE IN POWER SUPPLY APPLICATIONS – DIMENSIONS

1 Scope

This International Standard specifies the dimensions that are of importance for mechanical interchangeability for ETD-cores made of ferrite, the essential dimensions of coil formers to be used with them, and the effective parameter values to be used in calculations involving them.

NOTE 1 Whilst this standard mainly applies to ferrite, its validity for iron powder cores should not be overlooked.

NOTE 2 The cores covered by this standard are designed for use in power transformers and chokes operating at high flux density and generally at frequencies higher than those feasible with EC-cores of the same material, due to a core proportioning more suitable for high-frequency applications. They are generally used in pairs.

The use of “derived” standards which give more detailed specifications of component parts whilst still permitting compliance with this standard is discussed in Annex A, which also contains an example of a derived standard for coil formers.

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 normative document (including any amendments) applies.

IEC 60205:2001, *Calculation of the effective parameters of magnetic piece parts*