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# INTERNATIONAL STANDARD

# IEC 62317-1

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**Ferrite cores –  
Dimensions –**

**Part 1:  
General specification**



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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## FERRITE CORES – DIMENSIONS –

### Part 1: General specification

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International Standard IEC 62317-1 has been prepared IEC technical committee 51: Magnetic components and ferrite materials.

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

CDV	Report on voting
51/874/CDV	51/890/RVC

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 IEC 62317 series, published 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- withdrawn,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.

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

## FERRITE CORES – DIMENSIONS –

### Part 1: General specification

#### 1 Scope

This part of IEC 62317 specifies the standards and existing projects dealing with dimensions of ferrite cores.

It is intended that this standard will include ferrite cores which are widely used and referenced in industry, either because they are included in national standards, or because they are seen to have broad-based use in industry. Where applicable, it is intended that the existing industrial name for each standard part should appear with the part within this series.

It is intended that this standard will exclude ferrite cores which are specialty cores with limited use. Also, special cores which are only marginal variations upon standard cores are excluded.

Examples:

E24/25 (USA) and E24,5 (Metric) are two similar parts, yet they are included separately in this series because they are national standards, widely used.

E-187 (USA) and FEE19A (Japan) are two similar parts, yet they are included separately in this series because they are national standards, widely used.

EP5 has small dimensional differences when comparing different manufacturers, yet only one EP5 is shown in this series, because they are only minor variations on the single basic part.

A ferrite core produced by only one or two suppliers may generally be considered a specialty part, and not suitable as a standard core within this series. A ferrite core produced by three or more competing manufacturers may generally be considered to be a candidate to be included in this series.

IEC publishes electrical standards for families of ferrite cores, as well as this series of dimensional standards for families of ferrite cores. Modifications to the ferrite cores listed in one type of standard should be reflected in the other type.

#### 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 60133, *Dimensions of pot-cores made of magnetic oxides and associated parts*

IEC 60647, *Dimensions for magnetic oxide cores intended for use in power supplies (EC-cores)*

IEC 61185, *Ferrite cores (ETD-cores) intended for use in power supply applications – Dimensions*

IEC 61247, *PM-cores made of magnetic oxides and associated parts – Dimensions*

IEC 61596, *Magnetic oxide EP-cores and associated parts for use in inductors and transformers – Dimensions*

IEC 62317-4, *Ferrite cores – Dimensions – Part 4: RM-cores and associated parts*

IEC 62317-7, *Ferrite cores – Dimensions – Part 7: EER-cores*

IEC 62317-8, *Ferrite cores – Dimensions – Part 8: E-cores*

IEC 62317-9, *Ferrite cores – Dimensions – Part 9: Planar cores*

IEC 62323, *Dimensions of half pot-cores made of ferrite for inductive proximity switches*

IEC/TR 61604, *Dimensions of uncoated ring cores of magnetic oxides*