



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

GB/T 36103.1-2018

Ferrite cores -- Dimensions -- Part 1: General specification

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2002 (pre-standard)

1997 (pre-standard)

Foreword

GB/T 36103 "ferrite core size" is intended to be divided into the following parts.

--- Part 1. General specifications;

--- Part 2. pot core;

--- Part 3. Unpaired can cores;

--- Part 4. RM type core and its accessories;

--- Part 5. EP type core and its accessories;

--- Part 6. ETD type core;

--- Part 7. EER type core;

--- Part 8. E-type magnetic core;

---Part 9. Planar core;

--- Part 10. PM type core and its accessories;

--- Part 11. EC type core;

---Part 12. Uncoated toroidal core;

--- Part 13. PQ type magnetic core for power supply;

--- Part 14. EFD type core for power supply;

This part is the first part of GB/T 36103.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to IEC 62317-1:2007 "ferrite core size part 1. general specification" (English)

Version).

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

---GB/T 9630-2012 The size of the can core and its accessories made of magnetic oxide (IEC 60133:2000, IDT)

--- GB/T 36103.7-2018 Ferrite core size - Part 7. EER core (IEC 62317-7:2005, MOD)

---SJ/T 3171-2013 Dimensions of E-type core made of magnetic oxide (IEC 62317-8:2006, IDT)

---SJ/T 3172.4-2016 Dimensions of ferrite cores Part 4. RM cores and their accessories (IEC 62317-4:2005, IDT)

---SJ/T 3172.6-2013 Dimensions of ferrite cores - Part 6. ETD cores (IEC 61185:2005, IDT)

---SJ/T 11208-1999 Magnetic oxide EP type cores for inductors and transformers and their accessories (IEC 61596:1995, IDT)

This section also made the following editorial changes.

--- Table A.1 adds the national standards and industry standards of the "ferrite core size" series of standards, and updated

Status of the IEC 62317 series of standards.

1 Scope

This part of GB/T 36103 specifies the standards and series of standards for ferrite core dimensions.

This section covers ferrite cores that are widely used and shaped in the industry. These ferrite cores are either included in national standards, or

Has a wide range of industrial applications. Where applicable, the current industry name in each standard will appear in the corresponding series of standards section.

This section does not include a dedicated ferrite core for limited use, nor does it include a dedicated core that deviates from the standard core.

Example.

E24/25 (US) and E24.5 (Metric) are two similar cores, but they are included in this series of standards, respectively, because they meet national standards and are widely application.

E-187 (US) and FEE19A (Japan) are two similar cores, but they are included in this series of standards, respectively, because they meet national standards and are widely application.

EP5 has smaller size differences between different manufacturers, but only EP5 is given in this series because they are only small for a single basic product.

Variety.

Only one or two manufacturers produce ferrite cores that are generally considered a specialty product and are not suitable for use in this series.

Standard core. Ferrite cores produced by three or more competitors are generally included as candidates in this series of standards.

The IEC has issued an electrical standard for a series of ferrite cores, as well as a series of ferrite cores. a series of standards for ferrite

The modification of the body core will also be reflected in other series of ferrite core standards.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Dimensionsofpot-coresmadeofmag- sized dimensions of IEC 60133 magnetic oxide cans and their accessories

Netic oxides and associated parts)

IEC 60647 size of magnetic oxide core (EC type core) for power supply
[Dimensions for magnetic oxide cores in-

Dent for use in power supplies (EC-cores)]

Ferrite core (ETD type core) size for IEC 61185 power supply
[Ferrite cores (ETD-cores) intended for use

in power supply applications-Dimensions]

PM type core made of IEC 61247 magnetic oxide and its accessory size
(PM-cores made of magnetic oxides

and associated parts-Dimensions)

IEC 61596 magnetic oxide EP cores for inductors and transformers and their accessories
(Magnetic oxide EP-cores

and associated parts for use in inductors and transformers-Dimensions)

IEC 62317-4 Ferrite Core Dimensions Part 4. RM Cores and Accessories
(Ferrite cores-Dimensions-

Part 4. RM-cores and associated parts)

IEC 62317-7 Ferrite Core Sizes Part 7. EER Cores (Ferrite cores-Dimensions-Part 7.

EER-cores)

IEC 62317-8 Ferrite Core Dimensions Part 8. E-cores (Ferrite cores-Dimensions-Part 8. E-
Cores)

IEC 62317-9 Ferrite Core Sizes Part 9. Planar Cores (Ferrite cores-Dimensions-Part 9.

Planar cores)

Dimension of half pot-cores made of ferrite- IEC 62323 Inductive proximity switch ferrite half-cup
core

Rite for inductive proximity switches)

IEC /T R61604 size of uncoated magnetic oxide toroidal cores
(Dimension of uncoated ring cores of

Magnetic oxides)

3 Conversion of current standards and systems and revision projects