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

GB/T 36103.7-2018

Ferrite cores -- Dimensions -- Part 7: EER-cores

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Foreword

GB/T 36103 "Ferrite Core Size" is intended to be divided into the following parts.

- Part 1. General specifications;
- Part 2. Pot cores;
- Part 3. Unmatched pot cores;
- Part 4. RM Cores and Accessories;
- Part 5. EP core and its accessories;
- Part 6. ETD magnetic cores;
- Part 7. EER cores;
- Part 8. E-type core;
- Part 9. Plate cores;
- Part 10. PM core and its accessories;
- Part 11. EC cores;
- Part 12. Uncoated annular magnetic core;
- Part 13. PQ cores for power supply;
- Part 14. EFD type cores for power supply;
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This part is Part 7 of GB/T 36103.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the redrafted method to modify the use of IEC 62317-7.2005 "Ferrite core

size - Part 7. EER magnetic

heart".

This section compared with IEC 62317-7.2005, the main technical differences and their causes are as follows.

--- Chapter 1 added "More detailed requirements for the use of this type of magnetic core in combination with other parts in accordance with the relevant provisions of Appendix A of this standard

The content of the line ".

---In the original IEC standard, the maximum value of the gauge b dimension (from EER28L to EER49) does not match the minimum value of the D dimension of the core

B.2 requirements. Only reduce the minimum and maximum values of the size b of the gauge from the original 0.1 mm to 0.01 mm,

In order to meet the requirements of B.2. When checking the coil space, the gauge should be completely inserted into the core without force. At this point the gauge should touch the measured

Measuring the outer leg of the magnetic core mating surface. So in Appendix B, the size of the gauge used in the EER28L~EER49 core will be checked bMax.

Adjustments were made, and the minimum and maximum values of the size b of the gauge were reduced from the original 0.1 mm to 0.01 mm.

--- Not cited in the text. Nor is it directly referenced in the original IEC standard. So the reference file IEC 62358.2004 was deleted.

--- According to China's relevant national standards require unified view standards for the first perspective view. So we modified Figure 1, Figure 2 and Figure B.1

Part of the icon.

1 Scope

This part of GB/T 36103 specifies the important dimensions related to mechanical interchangeability of the preferred series of EER magnetic cores made of ferrite,

As well as the basic dimensions of the coil bobbin used with the core and the calculation of the effective parameter values used for such cores, it also specifies the derived criteria (see

The basic requirements of Appendix A).

This section applies to EER cores made of magnetic oxides.

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 version (including all amendments) applies to this document.

GB/T 20874-2007 Calculation of effective parameters of magnetic parts (IEC 60205.2001, IDT)

3.1.1 Main dimensions

The main dimensions of the EER core should meet the requirements of Table 1. The gauges can be used to verify the size of these cores. Appendix B gives

A standard example of the feasibility of these gauges. Although the core size requirements given in Table 1 do not allow for relaxation, they can be used for ease of production.

The gauge is different from the one given in Appendix B, but the core size requirements specified in Table 1 of this section cannot be relaxed.

The dimensions specified in Table 1 are shown in FIG.

3.1.2 Effective Parameter Values and Amin Values

Size matched to the paired EER type cores specified in 3.1.1, the effective parameter values and Amin values shall comply with the provisions of Table 2.

3.2 The size of the coil skeleton

The main dimensions of the bobbin suitable for pairing EER cores (see Fig. 2) should be in accordance with Table 3.