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Withdrawn

Terms and nomenclature for cores made of magnetically soft ferrites – Part 2: Reference of dimensions

Termes et nomenclature pour noyaux en matériaux ferrites magnétiquement doux – Partie 2: Références dimensionnelles

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

TERMS AND NOMENCLATURE FOR CORES MADE OF MAGNETICALLY SOFT FERRITES –

Part 2: Reference of dimensions

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International Standard IEC 60401-2 has been prepared by IEC technical committee 51: Magnetic components and ferrite materials.

This second edition cancels and replaces the first edition published in 2003. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

New ferrite core shapes "half pot core for inductive proximity switches and PM core" in accordance with IEC 62317 series have been added respectively as Figure 13 and Figure 14 in Clause 5: core illustrations.

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

CDV	Report on voting
51/943A/CDV	51/959/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 60401 series, under the general title *Terms and nomenclature for cores made of magnetically soft ferrites,* 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

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TERMS AND NOMENCLATURE FOR CORES MADE OF MAGNETICALLY SOFT FERRITES –

Part 2: Reference of dimensions

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1 Scope

This part of IEC 60401 presents a method for defining the designation nomenclature for the major physical attributes of soft ferrite core shapes. The purpose of this standard is to facilitate uniform usage of dimensional characters by manufacturers, specifiers, and users when describing core dimensions on drawings, in tables, and on catalogue specification sheets.

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 62317 (all parts), *Ferrite cores – Dimensions*

3 General specifications

Only upper case alphabetic character assignments shall be used.

Only one character per dimension per ferrite piece shall be used.

Characters 2B and 2D shall be used for core sets such as EP, PQ, Pot and RM.

4 Dimension descriptions

Table 1 and Table 2 describe the alphabetic character assignments for the major dimensions of ferrite shapes. All other minor core dimensions designations are left to the discretion of the specifier.

Table 1 – Toroid core dimension designations

Letter	Dimension description
A	Toroid outside diameter
B	Toroid inside diameter
C	Toroid height

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