
Terms and nomenclature for cores made of magnetically soft ferrites - Part 2:
Reference of dimensions (IEC 60401-2:2003)

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EUROPEAN STANDARD

EN 60401-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2003

ICS 29.100.10

English version

Terms and nomenclature for cores made of magnetically soft ferrites
Part 2: Reference of dimensions
(IEC 60401-2:2003)

Termes et nomenclature pour noyaux en
matériaux ferrites magnétiquement doux
Partie 2: Références dimensionnelles
(CEI 60401-2:2003)

Begriffe und Bezeichnungssystem für
Kerne aus weichmagnetischen Materialien
Teil 2: Maßreferenz
(IEC 60401-2:2003)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 51/706/FDIS, future edition 1 of IEC 60401-2, prepared by IEC TC 51, Magnetic components and ferrite materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60401-2 on 2003-06-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2004-03-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-06-01

Endorsement notice

The text of the International Standard IEC 60401-2:2003 was approved by CENELEC as a European Standard without any modification.

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Première édition
First edition
2003-04

**Termes et nomenclature pour noyaux
en matériaux ferrites magnétiquement doux –**

**Partie 2:
Références dimensionnelles**

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made of magnetically soft ferrites –**

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**Part 2:
Reference of dimensions**

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TERMS AND NOMENCLATURE FOR CORES MADE OF MAGNETICALLY SOFT FERRITES –

Part 2: Reference of dimensions

FOREWORD

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

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

FDIS	Report on voting
51/706/FDIS	51/717/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.

IEC 60401 consists of the following parts, under the general title *Terms and nomenclature for cores made of magnetically soft ferrites*:

- Part 1: Terms used for physical irregularities
- Part 2: Reference of dimensions
- Part 3: Guide on the format of data appearing in manufacturers' catalogues of transformer and inductor cores¹

Part 3 will cancel and replace the existing IEC 60401 published in 1993.

¹ Under consideration.

The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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TERMS AND NOMENCLATURE FOR CORES MADE OF MAGNETICALLY SOFT FERRITES –

Part 2: Reference of dimensions

1 Scope and object

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 General specification

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.

3 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 core outside diameter
B	Toroid core inside diameter
C	Toroid core height

Table 2 – Ferrite shapes dimension designations

Letter	Dimension description
A	Overall length of the core back or diameter
B	Outside leg length or height of core
C	Core width or floor width at wire aperture
D	Inside leg length or bobbin depth
E	Bobbin width or hole spacing
F	Centre post thickness or diameter
G	Wire aperture or slot width
H	Centre post hole diameter
J	RM core side-to-side parallel width
K	Centre post offset dimension
S	Slot width in outside legs
T	Distance between slot depths in outside legs

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