

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Ferrite cores – Guidelines on dimensions and the limits of surface irregularities –  
Part 4: RM-cores**

**Noyaux ferrites – Lignes directrices relatives aux dimensions et aux limites des  
irrégularités de surface –  
Partie 4: Noyaux RM**





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## CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references .....	6
3 Terms and definitions .....	6
4 Primary dimensions .....	7
4.1 General.....	7
4.2 Dimensions of RM-cores .....	7
4.2.1 Principal dimensions.....	7
4.2.2 Effective parameter and $A_{\min}$ values .....	7
4.3 Main dimensions for coil formers.....	7
4.3.1 Shape of coil former and pin numbering.....	7
4.3.2 Dimensions of coil formers for RM-cores for the primary standard .....	7
4.3.3 RM-cores intended particularly for power applications .....	7
4.4 Pin locations and base outlines.....	7
4.5 Spring recess.....	8
4.6 Stud recess.....	8
5 Mounting .....	21
6 Limits of surface irregularities.....	21
6.1 General.....	21
6.2 Examples of surface irregularities .....	21
6.3 Chips and ragged edges .....	21
6.3.1 General .....	21
6.3.2 Chip and ragged edges located on the mating surface .....	21
6.3.3 Chips and ragged edges located on other surfaces.....	22
6.4 Cracks .....	24
6.5 Pull-out .....	26
6.6 Crystallites.....	27
6.7 Flash .....	27
6.8 Pores.....	28
Annex A (informative) RM-core design.....	29
A.1 General.....	29
A.2 Pin locations and base outlines.....	29
A.3 Design considerations and dimensions .....	29
A.4 Practical considerations .....	30
Annex B (normative) Guidance for measuring clamping forces relevant to RM-core tests .....	31
B.1 Test conditions and clamping forces .....	31
B.2 Clamping procedure.....	31
Annex C (informative) Examples of allowable areas of chips.....	33
Bibliography.....	34
Figure 1 – Dimensions of RM-cores .....	9
Figure 2 – Dimensions of low-profile RM-cores .....	10
Figure 3 – Dimensions of spring recess .....	12
Figure 4 – Dimensions of stud recess .....	13

Figure 5 – Main dimensions of coil formers for RM-cores .....	14
Figure 6 – Pin locations and base outlines viewed from the underside of the board .....	16
Figure 7 – Dimensions of specific features .....	18
Figure 8 – Pin locations and base outlines viewed from the underside of the board .....	20
Figure 9 – Examples of surface irregularities .....	21
Figure 10 – Chips on mating surfaces .....	22
Figure 11 – Location of cracks – Top view .....	24
Figure 12 – Location of cracks – Bottom view .....	24
Figure 13 – Dimension $W$ .....	26
Figure 14 – Location of pull-out.....	26
Figure 15 – Pull-out in the clamping recess area.....	27
Figure 16 – Location of a crystallite .....	27
Figure 17 – Location of a flash.....	28
Figure 18 – Location of pore .....	28
Figure B.1 – Mounting device.....	31
Table 1 – Dimensions of RM-cores .....	9
Table 2 – Dimensions of low-profile RM-cores .....	10
Table 3 – Effective parameter and $A_{\min}$ values for RM-cores.....	11
Table 4 – Effective parameter and $A_{\min}$ values for low-profile RM-cores.....	12
Table 5 – Dimensions of spring recess.....	13
Table 6 – Dimensions of stud recess .....	13
Table 7 – Dimensional limits for coil formers for RM-cores.....	14
Table 8 – Dimensional limits for coil formers for low-profile RM-cores.....	15
Table 9 – Dimensions of specific features .....	19
Table 10 – Area and length reference of irregularities for visual inspection .....	23
Table 11 – Limits for cracks .....	25
Table 12 – $W$ dimensions .....	25
Table B.1 – Inner diameters and recommended clamping forces.....	32
Table C.1 – Examples of allowable area of chips .....	33

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## **FERRITE CORES – GUIDELINES ON DIMENSIONS AND THE LIMITS OF SURFACE IRREGULARITIES**

### **Part 4: RM-cores**

#### **FOREWORD**

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International Standard IEC 63093-4 has been prepared by IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials.

This first edition cancels and replaces the first edition of IEC 62317-4 published in 2005 and the second edition of IEC 60424-2 published in 2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC 62317-4:2005 and IEC 60424-2:2015:

- a) IEC 63093-4 integrates the contents of IEC 62317-4:2005 and IEC 60424-2:2015;
- b) IEC 60424-2:2015, Table 2, has been included in Annex C as Table C.1.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
51/1265/FDIS	51/1275/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 63093 series, published under the general title Ferrite cores – Guidelines on *dimensions and the limits of surface irregularities*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

# FERRITE CORES – GUIDELINES ON DIMENSIONS AND THE LIMITS OF SURFACE IRREGULARITIES

## Part 4: RM-cores

### 1 Scope

This part of IEC 63093 specifies the dimensions that are of importance for mechanical interchangeability for a preferred range of RM-cores and low-profile RM-cores made of ferrite, and the locations of their terminal pins on a 2,54 mm printed wiring grid in relation to the base outlines of the cores. It also gives guidance on allowable limits of surface irregularities applicable to RM-cores in accordance with the relevant generic specification.

The selection of core sizes for this document is based on the philosophy of including those sizes which are industrial standards, either by inclusion in a national standard, or by broad-based use in industry.

This document is a specification useful in the negotiations between ferrite core manufacturers and customers about surface irregularities.

The general considerations that the design of this range of cores is based upon are given in Annex A.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60205, *Calculation of the effective parameters of magnetic piece parts*

IEC 60401-1, *Terms and nomenclature for cores made of magnetically soft ferrites – Part 1: Terms used for physical irregularities*

IEC 60424-1, *Ferrite cores – Guidelines on the limits of surface irregularities – Part 1: General specification*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60401-1 and IEC 60424-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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