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**Ferrite cores – Guidelines on dimensions and the limits of surface irregularities –
Part 5: EP-cores and associated parts for use in inductors and transformers**

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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 Primary dimensions	6
4.1 General.....	6
4.2 Dimensions of EP-cores.....	6
4.2.1 Principal dimensions.....	6
4.2.2 Effective parameter and A_{\min} values.....	6
4.3 Dimensional limits for coil formers.....	7
4.4 Pin locations and base outlines.....	8
5 Limits of surface irregularities.....	9
5.1 General.....	9
5.2 Examples of surface irregularities	9
5.3 Chips and ragged edges	10
5.3.1 General	10
5.3.2 Chips and ragged edges on the mating surfaces.....	10
5.3.3 Chips and ragged edges on the other surfaces	10
5.4 Cracks	13
5.5 Flash	13
5.6 Pull-outs	13
5.7 Crystallites.....	14
5.8 Pores	15
Annex A (normative) EP-core design	16
A.1 General.....	16
A.2 Pin location and base outlines	16
Bibliography.....	17
Figure 1 – Principal dimensions of EP-cores	6
Figure 2 – Main dimensions of coil formers for EP-cores.....	7
Figure 3 – Pin locations (SMD type) viewed from the upper side of the board	8
Figure 4 – Pin locations (PTH type) viewed from the underside of the board	9
Figure 5 – Examples of surface irregularities	10
Figure 6 – Chip location for EP-cores.....	11
Figure 7 – Crack and pull-out locations for EP-cores.....	13
Figure 8 – Crystallite location for EP-cores	14
Figure 9 – Pore location for EP-cores	15
Table 1 – Principal dimensions of EP-cores	6
Table 2 – Effective parameter and A_{\min} values.....	7
Table 3 – Dimensional limits for coil formers for EP-cores.....	7
Table 4 – Area and length reference for visual inspection	12
Table 5 – Limits for cracks	14

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AND THE LIMITS OF SURFACE IRREGULARITIES –****Part 5: EP-cores and associated parts for use
in inductors and transformers**

FOREWORD

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International Standard IEC 63093-5 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 62317-5 published in 2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC 62317-5:2015:

- a) addition of the limits of surface irregularities.

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

CDV	Report on voting
51/1212/CDV	51/1233/RVC

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.

A bilingual version of this publication may be issued at a later date.

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

Part 5: EP-cores and associated parts for use in inductors and transformers

1 Scope

This part of IEC 63093 specifies the dimensions that are of importance for mechanical interchangeability for a preferred range of EP-cores made of ferrite, the essential dimensions of coil formers to be used with them and the locations of their terminal pins on a 2,50 mm printed wiring grid in relation to the base outlines of the cores and the effective parameter values to be used in calculations involving them. It also gives guidelines on allowable limits of surface irregularities applicable to EP-cores.

The specifications contained in this document are useful in negotiations between ferrite core manufacturers and users about surface irregularities.

The general considerations upon which the design of this range of cores is based are as 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*