

STN	Feritové jadrá Návody na rozmery a medze povrchových nerovnomerností Časť 14: EFD-jadrá	STN EN IEC 63093-14 35 8471
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Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 14: EFD-cores

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/19

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Supersedes EN 62317-14:2008

English Version

**Ferrite cores - Guidelines on dimensions and the limits of
surface irregularities - Part 14: EFD-cores
(IEC 63093-14:2019)**

Noyaux ferrites - Lignes directrices relatives aux
dimensions et aux limites des irrégularités de surface -
Partie 14: Noyaux EFD
(IEC 63093-14:2019)

Ferritkerne - Richtlinien zu Maßen und Grenzen von
Oberflächenbeschädigungen - Teil 14: EFD-Kerne
(IEC 63093-14:2019)

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

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EN IEC 63093-14:2019 (E)**European foreword**

The text of document 51/1272A/FDIS, future edition 1 of IEC 63093-14, prepared by IEC/TC 51 "Magnetic components, ferrite and magnetic powder materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63093-14:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-02-09
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60205	-	Calculation of the effective parameters of magnetic piece parts	EN 60205	-
IEC 60401	-	Ferrite materials - Guide on the format of data appearing in manufacturers' catalogues of transformer and inductor cores	-	-
IEC 60424-1	-	Ferrite cores - Guidelines on the limits of surface irregularities - Part 1: General specification	EN 60424-1	-



IEC 63093-14

Edition 1.0 2019-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Ferrite cores – Guidelines on dimensions and the limits of surface irregularities –
Part 14: EFD-cores**

**Noyaux ferrites – Lignes directrices relatives aux dimensions et aux limites des
irrégularités de surface –
Partie 14: Noyaux EFD**





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Edition 1.0 2019-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Ferrite cores – Guidelines on dimensions and the limits of surface irregularities –
Part 14: EFD-cores**

**Noyaux ferrites – Lignes directrices relatives aux dimensions et aux limites des
irrégularités de surface –
Partie 14: Noyaux EFD**

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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 EFD-cores	7
4.2.1 Principal dimensions.....	7
4.2.2 Effective parameter and A_{\min} values	8
4.3 Dimensional limits for coil formers.....	8
4.4 Locations of pins and base outlines	9
4.5 Pin diameter	12
5 Mounting	12
6 Definitions and limits of surface irregularities.....	12
6.1 General.....	12
6.2 Examples of surface irregularities	12
6.3 Chips and ragged edges	12
6.3.1 General	12
6.3.2 Chips and ragged edges located on the mating surface	12
6.3.3 Chips and ragged edges located on other surfaces.....	13
6.4 Cracks	15
6.5 Pull-out	16
6.6 Crystallites.....	16
6.7 Flash	16
6.8 Pores	17
Annex A (informative) EFD-core design	18
Annex B (informative) Limits for allowable chipping areas.....	19
Figure 1 – Dimensions of EFD-cores.....	7
Figure 2 – Main dimensions of coil formers for EFD-cores	8
Figure 3 – Locations of pins (SMD type) viewed from the upper side of the board.....	10
Figure 4 – Locations of pins (PTH type) viewed from the upper side of the board.....	11
Figure 5 – Examples of surface irregularities	12
Figure 6 – Locations of chips and ragged edges	13
Figure 7 – Locations of cracks	15
Figure 8 – Location of pull-out	16
Figure 9 – Location of crystallite	16
Figure 10 – Location of flash.....	17
Figure 11 – Location of pore	17

Table 1 – Dimensions of EFD-cores	7
Table 2 – Effective parameter and A_{\min} values for EFD-cores	8
Table 3 – Dimensional limits of coil formers for EFD-cores	9
Table 4 – Area and length reference of irregularities for visual inspection	14
Table 5 – Limits for cracks	15
Table B.1 – Limits for allowable chipping areas.....	19

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 14: EFD-cores

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International Standard IEC 63093-14 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 62317-14 published in 2008. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC 62317-14:2008:

- a) guidelines on the limits of surface irregularities of EFD-cores were added.

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

FDIS	Report on voting
51/1272A/FDIS	51/1286/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 14: EFD-cores

1 Scope

This part of IEC 63093 specifies the dimensions that are of importance for mechanical interchangeability for a preferred range of EFD-cores, the essential dimensions of coil formers to be used with them, and the effective parameter values to be used in calculations involving them. It also gives guidance on the allowable limits of surface irregularities applicable to EFD-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 national standards, or by broad-based use in industry.

This document is a specification useful in the negotiation between ferrite core manufacturers and users 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*

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