
High frequency inductive components - Non- electrical characteristics and measuring methods - Part 1: Fixed, surface mount inductors for use in electronic and telecommunication equipment (IEC 62025-1:2002)

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EUROPEAN STANDARD

EN 62025-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2002

ICS 29.100.10

English version

**High frequency inductive components -
Non-electrical characteristics and measuring methods
Part 1: Fixed, surface mounted inductors for use in electronic and
telecommunication equipment
(IEC 62025-1:2002)**

Composants inductifs à haute fréquence -
Caractéristiques non électriques et
méthodes de mesure

Partie 1: Inductances fixes pour montage
en surface utilisées dans les matériels
électroniques et les équipements
de télécommunications
(CEI 62025-1:2002)

Induktive Hochfrequenzbauelemente -
Nicht elektrische Eigenschaften und
Messmethoden

Teil 1: Oberflächenmontierbare
Festinduktivitäten für den Einsatz
in Elektronik und
Telekommunikationsgeräten
(IEC 62025-1:2002)

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This European Standard was approved by CENELEC on 2002-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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 51/659/FDIS, future edition 1 of IEC 62025-1, 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 62025-1 on 2002-07-01.

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) 2003-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-07-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62025-1:2002 was approved by CENELEC as a European Standard without any modification.

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Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61605	1996	Fixed inductors for use in electronic and telecommunication equipment - Marking codes	EN 61605	1997

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NORME
INTERNATIONALE
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STANDARD

CEI
IEC

62025-1

Première édition
First edition
2002-05

**Composants inductifs à haute fréquence –
Caractéristiques non électriques
et méthodes de mesure –**

Partie 1:

**Inductances fixes pour montage en surface
utilisées dans les matériels électroniques
et les équipements de télécommunications**

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**High frequency inductive components –
Non-electrical characteristics
and measuring methods –**

Part 1:

**Fixed, surface mounted inductors for use
in electronic and telecommunication equipment**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HIGH FREQUENCY INDUCTIVE COMPONENTS – NON-ELECTRICAL CHARACTERISTICS AND MEASURING METHODS –

Part 1: Fixed, surface mounted inductors for use in electronic and telecommunication equipment

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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International Standard IEC 62025-1 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
51/659/FDIS	51/676/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 3.

The committee has decided that this publication remains valid until 2005. At this date, in accordance with the committee's decision, the publication will be

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

HIGH FREQUENCY INDUCTIVE COMPONENTS – NON-ELECTRICAL CHARACTERISTICS AND MEASURING METHODS –

Part 1: Fixed, surface mounted inductors for use in electronic and telecommunication equipment

1 Scope

This International Standard applies to fixed, surface mounted inductors.

Should conflict arise between these specifications and the detail specifications, the latter will take precedence.

The object of this standard is to establish requirements to describe terms, to give recommendations for standard values and dimensions and to give guidance on fixed, surface mounted inductors.

2 Normative reference

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 61605:1996, *Fixed inductors for use in electronic and telecommunication equipment – Marking codes*

3 Graphical symbols and designations

3.1 Designation

The designation of fixed, surface mounted inductors is expressed by 12 digits as follows:

□ □ □ □ □ □ □ □ □ □ □ □

a) b) c) d) e)

a) Identification of the type of inductor: □ □ □

Fixed, surface mounted inductors shall be identified by the three alphabetic characters 'LCL'.

b) Indication of outline dimensions: □ □ □ □

The outline dimensions of surface mounted inductors shall be indicated by a four-digit number in 0,1 mm steps. The first two digits indicate outline dimension *A* and the last two digits indicate outline dimension *B* as shown in figure 1.