



IEC 61605

Edition 3.0 2016-10

INTERNATIONAL STANDARD

**Fixed inductors for use in electronic and telecommunication equipment –
Marking codes**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 29.100.10

ISBN 978-2-8322-3694-9

Warning! Make sure that you obtained this publication from an authorized distributor.

CONTENTS

FOREWORD	3
1 Scope	5
2 Normative references	5
3 Colour code for fixed inductors	5
3.1 General rules	5
3.2 Examples of colour code for fixed inductors	6
4 Digit and letter code for inductance values	7
4.1 General rules	7
4.2 Examples of digit and letter code for inductance values	8
5 Letter code for tolerances of inductance values	9
5.1 Symmetrical tolerances	9
5.2 Other tolerances	9
6 Date code system for fixed inductors	9
6.1 Single-character code for year and month	9
6.2 Two-character code for year and month	10
6.3 Four-character code for year and week	11
Bibliography	12
 Figure 1 – Example for 47 µH ± 10 %	6
Figure 2 – Example for 4,7 µH ± 2 %	7
Figure 3 – Example for 4,7 nH ± 5 %	7
 Table 1 – Values corresponding to colours	6
Table 2 – Cardinal numbers for the multiplier	7
Table 3 – Examples of digit and letter code for inductance values	8
Table 4 – Letter code for symmetrical tolerance	9
Table 5 – Single-character code for year and month for a four-year cycle	10
Table 6 – Code letter for year in a twenty-year cycle	10
Table 7 – Character code letter for month	11

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIXED INDUCTORS FOR USE IN ELECTRONIC AND
TELECOMMUNICATION EQUIPMENT – MARKING CODES****FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. 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 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 IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61605 has been prepared by IEC technical committee 51: Magnetic components and ferrite materials.

This third edition cancels and replaces the second edition published in 2005. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) The date code system for fixed inductors has been updated.

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

CDV	Report on voting
51/1135/CDV	51/1147/RVC

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.

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

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

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

FIXED INDUCTORS FOR USE IN ELECTRONIC AND TELECOMMUNICATION EQUIPMENT – MARKING CODES

1 Scope

This document specifies marking codes for fixed inductors.

The colour code specified in Clause 3 gives a colour coding for fixed inductors. It is intended for use with the values of the E3 to E24 series as specified in IEC 60063.

The code specified in Clause 4 gives a system for marking inductance values by means of digits and letters.

The code specified in Clause 5 gives a system for marking the tolerance on inductance values by means of letters.

The code specified in Clause 6 gives a system for marking of date codes on fixed inductors by means of letters and digits.

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.

ISO 8601, *Data elements and interchange formats – Information interchange – Representation of dates and times*