

Marking codes for resistors and capacitors

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60062:2008 sisaldab Euroopa standardi EN 60062:2005 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 24.07.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 26.05.2008.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 60062:2008 consists of the English text of the European standard EN 60062:2005.

This standard is ratified with the order of Estonian Centre for Standardisation dated 24.07.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 26.05.2008.

The standard is available from Estonian standardisation organisation.

ICS 31.020

Võtmesõnad:

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
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EUROPEAN STANDARD

EN 60062

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2005

ICS 31.020

Supersedes EN 60062:1993 + A1:1997 + A11:2001
Incorporates Corrigendum January 2007

English version

Marking codes for resistors and capacitors (IEC 60062:2004)

Codes de marquage des résistances
et des condensateurs
(CEI 60062:2004)

Kennzeichnung von Widerständen
und Kondensatoren
(IEC 60062:2004)

This European Standard was approved by CENELEC on 2005-03-01. 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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 40/1465/FDIS, future edition 5 of IEC 60062, prepared by IEC TC 40, Capacitors and resistors for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60062 on 2005-03-01 with inclusion of a common modification prepared by the Technical Committee CENELEC TC 40XA, Capacitors.

This European Standard supersedes EN 60062:1993 + A1:1997 + A11:2001.

This European Standard includes the following significant technical changes with respect to EN 60062:1993 and its amendments:

- a) completion of the existing code systems for
 - resistors with a three-character code system and a four-character code system;
 - temperature coefficient of resistance with a letter code system;
 - data code system for capacitors and resistors with the 10-year cycle code (two-character code), the 20-year cycle code (four-digit code), the 10-year cycle code (four-digit code), and a one-character code - four-year cycle.
- b) revision of the code letter system for the dielectric material of plastic film and paper capacitors.

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) 2005-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2008-03-01

Annex ZA has been added by CENELEC.

The contents of the corrigendum of January 2007 have been included in this copy.

Endorsement notice

The text of the International Standard IEC 60062:2004 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE Where 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 60063	1963	Preferred number series for resistors and capacitors	-	-
ISO 1043-1	2001	Plastics - Symbols and abbreviated terms Part 1: Basic polymers and their special characteristics	EN ISO 1043-1	2001
ISO 8601	2000	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-

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MARKING CODES FOR RESISTORS AND CAPACITORS

1 Scope

This International Standard specifies marking codes for resistors and capacitors and indexes for the dielectric material and the electrodes of plastic film and paper capacitors.

The code specified in Clause 3 gives a colour coding for fixed resistors.

It is intended for use with the values of the E6 to E192 series as specified in IEC 60063.

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

The code specified in Clause 5 gives a system for marking the tolerance on resistance and capacitance values by means of a letter.

The code specified in Clause 6 gives systems for marking the date codes on capacitors and resistors by means of letters and digits.

The code (index) specified in Clause 7 gives a coding system for the dielectric material.

2 Normative references

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 60063:1963, *Preferred number series of resistors and capacitors*

ISO 1043-1:2001, *Plastics – Symbols and abbreviated terms – Part 1: Basic polymers and their special characteristics*

ISO 8601:2000, *Data elements and interchange formats – Information interchange – Representation of dates and times*

3 Colour code for fixed resistors

3.1 The colour code for indicating resistance values to two and three significant figures, tolerances and, if needed, the indication of the temperature coefficient of fixed resistors shall be as given in 3.2, 3.3 and 3.4.

3.2 The first band shall be the one nearest to the end of the resistor and the bands shall be so placed and spaced that there can be no confusion in reading the coding.

3.3 Any additional coding shall be so applied as not to confuse the coding for value and tolerance.