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Marking codes for resistors and capacitors

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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Colour code for fixed resistors	5
4 Letter and digit code for resistance and capacitance values	7
5 Letter code for tolerance and temperature coefficient on resistance and capacitance values	11
6 Date code system for capacitors and resistors.....	12
7 Code letter (index) for the dielectric material of plastic film and paper capacitors	15
Table 1 – Values corresponding to colours.....	6
Table 2a – Examples of code marking for resistance values – max. 3 significant digits	8
Table 2b – Examples of code marking for resistance values – 4 significant digits.....	8
Table 3 – Examples of code marking in the three-character code system.....	9
Table 4 – Examples of code marking in the four-character code system.....	9
Table 5a – Examples of code marking for capacitance values – max. 3 significant digits	10
Table 5b – Examples of code marking for capacitance values – 4 significant digits	10
Table 6 – Letter code for symmetrical tolerances (per cent)	11
Table 7 – Letter code for asymmetrical tolerances (per cent)	11
Table 8 – Letter code for symmetrical tolerances (fixed values)	11
Table 9 – Letter code for temperature coefficient of resistance (TCR).....	12
Table 10a – ‘Year’ in the two-character code (20-year cycle)	13
Table 10b – ‘Month’ in the two-character code (20-year cycle).....	13
Table 11a – ‘Year’ in the two-character code (10-year cycle)	13
Table 11b – ‘Month’ in the two-character code (10-year cycle).....	14
Table 12 – One-character code – 4-year cycle	15
Table 13 – Letter corresponding to dielectric of plastic film material.....	15

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MARKING CODES FOR RESISTORS
AND CAPACITORS****FOREWORD**

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International Standard IEC 60062 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This fifth edition cancels and replaces the fourth edition published in 1992 and its amendment 1 (1995) and constitutes a technical revision.

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

- 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) extension with a code letter system for the dielectric material of plastic film and paper capacitors.

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

FDIS	Report on voting
40/1465/FDIS	40/1486/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 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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.

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*