IEC 60115-8

Edition 2.0 2009-01

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



## Fixed resistors for use in electronic equipment – Part 8: Sectional specification – Fixed surface mount resistors

## Résistances fixes utilisées dans les équipements électroniques – Partie 8: Spécification intermédiaire – Résistances fixes pour montage en surface

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

PRICE CODE
CODE PRIX

X

ICS 31.040.10

ISBN 978-2-83220-594-5

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

# FIXED RESISTORS FOR USE IN ELECTRONIC EQUIPMENT –

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## FOREWORD

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International Standard IEC 60115-8 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This second edition cancels and replaces the first edition, published in 1989, and its Amendment 1 (2000). This second edition constitutes a technical revision and includes test conditions and requirements for lead-free soldering and assessment procedures meeting the requirements of a "zero defect" approach.

The major technical changes with regard to the first edition are the following:

– introduction of a product classification based on application requirements;
– extension of the list of styles and dimensions;
– use of an extended scope of stability class definitions;
– extension of the lists of preferred values of ratings
– inclusion of test conditions and requirements for lead-free soldering, for periodic overload and for resistance to electrostatic discharge (ESD);

– inclusion of a new set of severities for a shear test;
– inclusion of definitions for a test board;
– replacement of assessment level E and possible others by the sole assessment level EZ, meeting the requirements of a “zero defect” approach;
– inclusion of an extended endurance test, a flammability test, a temperature rise test, vibration tests, an extended rapid change of temperature test, and a single pulse high-voltage overload test;
– inclusion of requirements applicable to 0 Ω resistors (jumpers).

This bilingual version (2013-01) corresponds to the monolingual English version, published in 2009-01.

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

| FDIS | Report on voting |
|---|---|
| 40/1933/FDIS | 40/1970/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.

The French version of this standard has not been voted upon.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts of the IEC 60115 series, under the general title *Fixed resistors for use in electronic equipment*, can be found on the IEC website.

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.