SLOVENSKI STANDARD
SIST EN IEC 60115-8-10:2026

01-december-2026

Nadomešča:
SIST EN 60115-8-1:2015

Fiksni upori za uporabo v elektronski opremi - 8-10. del: Neizpolnjena podrobna specifikacija - Površinsko montirani (SMD) tankoplastni upori nizke moči za montažo na tiskana vezja, za univerzalno elektronsko opremo, razvrstitvena raven G (IEC 60115-8-10:2026)

Fixed resistors for use in electronic equipment - Part 8-10: Blank detail specification: Surface mount (SMD) low-power film resistors for assembly on circuit boards, for general electronic equipment, classification level G (IEC 60115-8-10:2026)

Sample Document

Festwiderstände zur Verwendung in Geräten der Elektronik - Teil 8-10: Vordruck für Bauartspezifikation - Oberflächenmontierbare (SMD) Schicht-Festwiderstände niedriger Belastbarkeit für Geräte der Elektronik, Klassifikationsstufe G (IEC 60115-8-10:2026)

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Résistances fixes utilisées dans les équipements électroniques - Partie 8-10: Spécification particulière-cadre: Résistances à couche, à faible dissipation, pour montage en surface (CMS) pour assemblage sur cartes de circuit imprimé pour des équipements électroniques généraux, niveau de classification G (IEC 60115-8-10:2026)

Ta slovenski standard je istoveten z: **EN IEC 60115-8-10:2026**

ICS:

31.040.10	Fiksni upor	Fixed resistors

SIST EN IEC 60115-8-10:2026 **en**

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EN IEC 60115-8-10

October 2026

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Supersedes EN 60115-8-1:2015

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Fixed resistors for use in electronic equipment - Part 8-10: Blank detail specification: Surface mount (SMD) low-power film resistors for assembly on circuit boards, for general electronic equipment, classification level G (IEC 60115-8-10:2026)

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European foreword

The text of document 40/3264/CDV, future edition 1 of IEC 60115-8-10, prepared by TC 40 "Capacitors and resistors for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60115-8-10:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2027-10-31
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2029-10-31

This document supersedes EN 60115-8-1:2015 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

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The text of the International Standard IEC 60115-8-10:2026 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60068-1	NOTE	Approved as EN 60068-1
IEC 60068-2-1	NOTE	Approved as EN IEC 60068-2-1
IEC 60068-2-2	NOTE	Approved as EN IEC 60068-2-2
IEC 60068-2-6	NOTE	Approved as EN 60068-2-6
IEC 60068-2-13	NOTE	Approved as EN IEC 60068-2-13
IEC 60068-2-14	NOTE	Approved as EN IEC 60068-2-14
IEC 60068-2-20	NOTE	Approved as EN IEC 60068-2-20
IEC 60068-2-21	NOTE	Approved as EN IEC 60068-2-21
IEC 60068-2-30	NOTE	Approved as EN IEC 60068-2-30
IEC 60068-2-45	NOTE	Approved as EN 60068-2-45
IEC 60068-2-58	NOTE	Approved as EN 60068-2-58
IEC 60068-2-78	NOTE	Approved as EN IEC 60068-2-78
IEC 60195	NOTE	Approved as EN 60195
IEC 60695-11-5	NOTE	Approved as EN 60695-11-5
IEC 60749-26	NOTE	Approved as EN IEC 60749-26
IEC 80000 series	NOTE	Approved as EN IEC 80000 series
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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60062	2016	Marking codes for resistors and capacitors	EN 60062	2016
IEC 60063	-	Preferred number series for resistors and capacitors	EN 60063	-
IEC 60115-1 (mod)	2020	Fixed resistors for use in electronic equipment - Part 1: Generic specification	EN 60115-1	2023
IEC 60115-8	2023	Fixed resistors for use in electronic equipment - Part 8: Sectional specification: Fixed surface mount resistors	EN IEC 60115-8	2026
			+ A11	2026
bIEC 60115-8-10	2026	Fixed resistors for use in electronic equipment - Part 8-10: Blank detail specification: Surface mount (SMD) low-power film resistors for assembly on circuit boards, for general electronic equipment, classification level G	EN IEC 60115-8-10	2026
IEC 60286-3	-	Packaging of components for automatic handling - Part 3: Packaging of surface mount components on continuous tapes	EN IEC 60286-3	-
IEC 61193-2	2007	Quality assessment systems - Part 2: Selection and use of sampling plans for inspection of electronic components and packages	EN 61193-2	2007
IEC 61760-1	-	Surface mounting technology - Part 1: Standard method for the specification of surface mounting components (SMDs)	EN IEC 61760-1	-

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IEC 60115-8-10

Edition 1.0 2026-09

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Part 8-10: Blank detail specification: Surface mount (SMD) low-power film resistors for assembly on circuit boards, for general electronic equipment, classification level G

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

_____

Fixed resistors for use in electronic equipment - Part 8-10: Blank detail specification: Surface mount (SMD) low-power film resistors for assembly on circuit boards, for general electronic equipment, classification level G

FOREWORD

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IEC 60115-8-10 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment. It is an International Standard.

This edition includes the following significant technical changes with respect to the previous edition IEC 60115-8-1:2014:

a) it supports solderability testing for both traditional lead-bearing soldering and up-to-date lead-free soldering, as required;
b) it supports the provision of detailed visual acceptance criteria;
c) it includes the requirement for a visual examination of the primary and proximity packaging;
d) it provides for the inclusion of specific visual acceptance criteria, to be applied in addition to those given in Annex B of the sectional specification IEC 60115-8:2023.

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The text of this International Standard is based on the following documents:

Draft	Report on voting
40/3264/CDV	40/3309/RVC

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

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

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

– reconfirmed,
– withdrawn, or
– revised.

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INTRODUCTION

0 Introduction to the template provided by this blank detail specification

COMMENT This introduction is not intended to be copied into the drafted detail specification. Therefore, it is positioned in front of the conventional document structure and clause numbering range. It nevertheless contains normative requirements to the drafted detail specification.

0.1 Scope of this blank detail specification

This part of IEC 60115-8 is applicable to the drafting of detail specifications for surface mount (SMD) low-power film resistors, classified to level G, based on the definition of the product classification levels in IEC 60115-1:2020, 3.4.

Another part of IEC 60115-8 provides a separate blank detail specification for the drafting of detail specifications for surface mount (SMD) low-power film resistors, classified to level P and to level R.

Yet other parts of IEC 60115-8 may be issued to provide blank detail specifications for the drafting of detail specifications for surface mount (SMD) resistors, of other technologies or of other classification levels.

0.2 Function of this blank detail specification

A blank detail specification is a supplementary document to the sectional specification and contains requirements for style, layout and minimum contents of detail specifications. Detail specifications not complying with these requirements shall not be accepted as being in accordance with IEC specifications nor shall they be described as such.

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Detail specifications complying with the requirements of this blank detail specification are a legitimate basis for the quality assessment of leaded fixed low-power film resistors under an adequate quality assessment system, e.g. the IEC Quality Assessment System for Electronic Components (IECQ System), whereas the plain blank detail specification is not a suitable basis.

The detail specification should contain a table of contents prior the first page of the actual specification.

In the preparation of the detail specification, the content of IEC 60115-8:2023, 8.2 shall be taken into account. The detail specification should be written by using the preferred values given in IEC 60115-8.

Units, graphical symbols and letter symbols shall, whenever possible, be taken from those prescribed by the following standards:

– IEC 60027-1, *Letter symbols to be used in electrical technology - Part 1: General*
– IEC 60617, *Graphical symbols for diagrams*
– IEC 80000 (all parts), *Quantities and units*
– ISO 80000 (all parts), *Quantities and units*

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This blank detail specification uses for its purpose two different kinds of notes:

– NOTE For notes which give additional information intended to assist the understanding or use of the resulting document and therefore shall be copied as NOTE into the drafted detail specification. As outlined in the ISO/IEC directives, these notes shall not contain any requirement, instruction, recommendation or permission.

– COMMENT For editorial notes which are intended to aid and direct the specification writer and therefore shall not be copied into the drafted detail specification. In order to accomplish their function, editorial notes require the use of instructions, recommendations and permissions addressed to the writer of the detail specification.

0.3 Identification of the detail specification and the resistor

The first page of the detail specification should have a layout starting with a title block as recommended on the following page.

The numbers in square brackets are editorial references, which are not intended to be copied into the drafted detail specification, and which correspond to the following information on the contents which shall be inserted in the indicated fields.

[1] The name of the standardisation organisation under whose authority the detail specification is published and, if applicable, the organization from whom the detail specification is available.

[2] The number allocated to the detail specification by the IEC or by the responsible standardisation organisation, together with the date of issue and issue number, as applicable. Further reference details required by the responsible standardisation organisation or quality assessment system may be given here, including an established mark of conformity, as applicable.

[3] The number and issue date and number, as applicable, of the relevant generic specification, sectional specification and blank detail specification, where the referenced issues shall be the most recent issues of the respective specifications.

[4] The title of the detail specification, providing a short description of the type of resistors.

This entry should support the discrimination between similar specifications and should be suitable for an entry in a register of approvals or in a catalogue of standards. It may duplicate information given in fields [6] and [7] and in the textual scope in Clause 1.

[5] An outline drawing or illustration of the products. This entry should aid the easy recognition of the specified resistors and, if possible, support the discrimination between similar specifications. It may duplicate information given in Figure 1.

[6] Information on the typical construction of the resistors (where applicable), information of the specified resistors being insulated or non-insulated (see IEC 60115-1:2020, 3.1.7), and information on compatibility with a specific soldering process (if applicable, see 8.4). This entry may duplicate information given in the textual scope in Clause 1.

[7] The classification level of the resistors covered by this detail specification, the level of quality assessment (Assessment level EZ), and the general level of stability requirements at performance tests (Stability class).

This information may duplicate information given in the textual scope in Clause 1.

[8] Optional field for table notes.

[9] Statement(s) about the availability of information on components qualified to this detail specification, if applied within a full quality assessment system.

Example for the use within the IECQ system:

Information about components qualified to this detail specification is available in the approvals section of the website http://www.iecq.org.

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<table>
<tr><td>Specification available from:
[1]</td><td colspan="2">IEC 60115-8-10xx:20yy
[2]</td></tr>
<tr><td colspan="3">Electronic components of assessed quality in accordance with:
Generic specification: IEC 60115-1:2020 [3]
Sectional specification: IEC 60115-8:2023
Blank detail specification: IEC 60115-8-10:2026</td></tr>
<tr><td colspan="3">FIXED RESISTORS FOR USE IN ELECTRONIC EQUIPMENT –
Part 8-10xx: Detail specification – Surface mount (SMD) low-power film resistors for assembly on circuit boards, ..., for general electronic equipment, classification level G
[4]</td></tr>
<tr><td colspan="2" rowspan="2">[5]</td><td>Technology ...
[6]
Insulated / Non-insulated
Termination plating ...</td></tr>
<tr><td>Product classification level G
Assessment level EZ [7]
Stability classes ...</td></tr>
<tr><td colspan="3">[8]</td></tr>
</table>

COMMENT The remainder of this page is intentionally left empty in order to start Clause 1 on top of the next page.

Information about components qualified to this detail specification is available ..... [9]

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