



SLOVENSKI STANDARD SIST EN 60286-2:2015

01-september-2015

Nadomešča:
SIST EN 60286-2:2009

Pakiranje komponent za avtomatsko ravnanje - 2. del: Pakiranje komponent z enostranskimi priključki na neprekinjenih trakovih

Packaging of components for automatic handling - Part 2: Packaging of components with unidirectional leads on continuous tapes

Gurtung und Magazinierung von Bauelementen für automatische Verarbeitung – Teil 2: Gurtung von Bauelementen mit einseitig herausgeführten Anschlussdrähten

Emballage de composants pour opérations automatisées - Partie 2: Emballage des composants à sorties unilatérales en bandes continues

Ta slovenski standard je istoveten z: **EN 60286-2:2015**

ICS:

31.020	Elektronske komponente na splošno	Electronic components in general
55.020	Pakiranje in distribucija blaga na splošno	Packaging and distribution of goods in general

SIST EN 60286-2:2015 en

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EN 60286-2

NORME EUROPÉENNE

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June 2015

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English Version

**Packaging of components for automatic handling - Part 2:
Packaging of components with unidirectional leads on
continuous tapes
(IEC 60286-2:2015)**

Emballage de composants pour opérations automatisées -
Partie 2: Emballage des composants à sorties unilatérales
en bandes continues
(IEC 60286-2:2015)

Gurtung und Magazinierung von Bauelementen für
automatische Verarbeitung - Teil 2: Gurtung von
Bauelementen mit einseitig herausgeführten
Anschlussdrähten
(IEC 60286-2:2015)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 40/2343/FDIS, future edition 4 of IEC 60286-2, prepared by IEC/TC 40 "Capacitors and resistors for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60286-2:2015.

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) 2016-02-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-05-27

This document supersedes EN 60286-2:2009.

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

<https://standards.iteh.ai/catalog/standards/sist/394188be-283b-44c5-9481-b0d265c74474/iec-60286-2-2015>
ISO 11469:2000 (NOTE) Harmonized as EN ISO 11469:2000.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60097	1991	Grid systems for printed circuits	EN 60097	1993
IEC 60301	-	Preferred diameters of wire terminations of capacitors and resistors	EN 60301	-

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IEC 60286-2

Edition 4.0 2015-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Packaging of components for automatic handling –
Part 2: Tape packaging of components with unidirectional leads on continuous
tapes**

**Emballage de composants pour opérations automatisées –
Partie 2: Emballage des composants à sorties unilatérales en bandes continues**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING –**Part 2: Tape packaging of components with
unidirectional leads on continuous tapes**

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.
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International Standard IEC 60286-2 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This fourth edition cancels and replaces the third edition, published in 2008, and constitutes a technical revision.

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

- A complete revision of the structure and reworked layout.
- A two page overview containing a clear overview of all symbols and references.
- Addition of annexes of known radial tape formats.
- Improved figures.

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

FDIS	Report on voting
40/2343/FDIS	40/2374/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.

A list of all parts in the IEC 60286 series, published under the general title *Packaging of components for automatic handling*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website 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.

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PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING –

Part 2: Tape packaging of components with unidirectional leads on continuous tapes

1 Scope

This part of IEC 60286 applies to the tape packaging of components with two or more unidirectional leads for use in electronic equipment. In general, the tape is applied to the component leads.

It covers requirements for taping techniques used with equipment for automatic handling, pre-forming of leads, insertion and other operations and includes only those dimensions which are essential to the taping of components intended for the above-mentioned purposes.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60097:1991, *Grid systems for printed circuits*

[SIST EN 60286-2:2015](https://standards.iteh.ai/catalog/standard/iec/60097-1991)

IEC 60301, *Preferred diameters of wire terminations of capacitors and resistors*

[SIST EN 60286-2:2015](https://standards.iteh.ai/catalog/standard/iec/60301-2001)

3 Terms, definitions and symbols

For the purpose of this document, the following terms, definitions and symbols apply.

3.1 Terms and definitions

3.1.1

package

product made of any material of any nature to be used in containment, protection, structured alignment for automatic assembly, handling and delivery

3.1.2

short terminal without tape

terminal which is not held between carrier tape and cover tape

Note 1 to entry: See Figure 1.