ICS 31.180 SLOVENSKÁ TECHNICKÁ NORMA Október 2016

STN	**Dosky s plošnými spojmi. Časť 20: Dosky plošných spojov pre LED s vysokým jasom.**	**STN EN 62326-20** 34 6514

Printed boards - Part 20: Printed circuit boards for high-brightness LEDs

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/16

Obsahuje: EN 62326-20:2016, IEC 62326-20:2016

123442

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62326-20

May 2016

ICS 31.180

English Version

Printed boards - Part 20: Printed circuit boards for high-brightness LEDs
(IEC 62326-20:2016)

Cartes imprimées - Partie 20: Cartes de circuits imprimés destinées aux LED à haute luminosité
(IEC 62326-20:2016)

Leiterplatten - Teil 20: Elektronische Leiterplatte für Hochleistungs-LEDs
(IEC 62326-20:2016)

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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

Ref. No. EN 62326-20:2016 E

European foreword

The text of document 91/1311/FDIS, future edition 1 of IEC 62326-20, prepared by IEC/TC 91 "Electronics assembly technology" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62326-20:2016.

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)	2016-12-09
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2019-03-09

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The text of the International Standard IEC 62326-20:2016 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 standards indicated:

IEC 60068-1	NOTE	Harmonized as EN 60068-1.
IEC 60068-2-1	NOTE	Harmonized as EN 60068-2-1.
IEC 60068-2-2	NOTE	Harmonized as EN 60068-2-2.
IEC 60068-2-6	NOTE	Harmonized as EN 60068-2-6.
IEC 60068-2-20	NOTE	Harmonized as EN 60068-2-20.
IEC 60068-2-21	NOTE	Harmonized as EN 60068-2-21.
IEC 60068-2-30	NOTE	Harmonized as EN 60068-2-30.
IEC 60068-2-38	NOTE	Harmonized as EN 60068-2-38.
IEC 60068-2-53	NOTE	Harmonized as EN 60068-2-53.
IEC 60068-2-58	NOTE	Harmonized as EN 60068-2-58.
IEC 60068-2-64	NOTE	Harmonized as EN 60068-2-64.
IEC 60068-2-66	NOTE	Harmonized as EN 60068-2-66.
IEC 60068-2-78	NOTE	Harmonized as EN 60068-2-78.
IEC 60068-2-80	NOTE	Harmonized as EN 60068-2-80.
IEC 61189-1	NOTE	Harmonized as EN 61189-1.

IEC 61189-2	NOTE	Harmonized as EN 61189-2.
IEC 61189-11	NOTE	Harmonized as EN 61189-11.
IEC 61189-3-913	NOTE	Harmonized as EN 61189-3-913.
IEC 61190-1-1	NOTE	Harmonized as EN 61190-1-1.
IEC 61190-1-2	NOTE	Harmonized as EN 61190-1-2.
IEC 61190-1-3	NOTE	Harmonized as EN 61190-1-3.
IEC 61249-2-8	NOTE	Harmonized as EN 61249-2-8.
IEC 62137-1-3	NOTE	Harmonized as EN 62137-1-3.
IEC 62137-1-4	NOTE	Harmonized as EN 62137-1-4.
IEC 62326-1	NOTE	Harmonized as EN 62326-1.
IEC 62326-4	NOTE	Harmonized as EN 62326-4.
ISO 291	NOTE	Harmonized as EN ISO 291.
ISO 2409	NOTE	Harmonized as EN ISO 2409.
ISO 3599	NOTE	Harmonized as EN ISO 3599.
ISO 3611	NOTE	Harmonized as EN ISO 3611.
ISO 4957	NOTE	Harmonized as EN ISO 4957.
ISO 291	NOTE	Harmonized as EN ISO 291.
ISO 6906	NOTE	Harmonized as EN ISO 6906.
ISO 8512-1	NOTE	Harmonized as EN ISO 8512-1.
ISO 8512-2	NOTE	Harmonized as EN ISO 8512-2.
ISO 9445-1	NOTE	Harmonized as EN ISO 9445-1.
ISO 9453	NOTE	Harmonized as EN ISO 9453.
ISO 9454-1	NOTE	Harmonized as EN ISO 9454-1.
ISO 9455 (series)	NOTE	Harmonized as EN ISO 9455 (series).
ISO 13385-1	NOTE	Harmonized as EN ISO 13385-1.
ISO 15184	NOTE	Harmonized as EN ISO 15184.

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.

Publication	Year	Title	EN/HD	Year
IEC 60194	-	Printed board design, manufacture and assembly - Terms and definitions	EN 60194	-
IEC 61189-3	2007	Test methods for electrical materials, printed boards and other interconnection structures and assemblies -- Part 3: Test methods for interconnection structures (printed boards)	EN 61189-3	2008
IEC 61249-2-6	-	Materials for printed boards and other interconnecting structures -- Part 2-6: Reinforced base materials, clad and unclad - Brominated epoxide non-woven/woven E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad	EN 61249-2-6	-
IEC 61249-2-7	-	Materials for printed boards and other interconnecting structures -- Part 2-7: Reinforced base materials, clad and unclad - Epoxide woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad	EN 61249-2-7	-
IEC 62878-1-1	-	Device embedded substrate - Generic specification - Test method	EN 62878-1-1	-

IEC 62326-20

Edition 1.0 2016-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Part 20: Printed circuit boards for high-brightness LEDs

Cartes imprimées –
Partie 20: Cartes de circuits imprimés destinées aux LED à haute luminosité

IEC 62326-20:2016-02(en-fr)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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PRINTED BOARDS –

Part 20: Printed circuit boards for high-brightness LEDs

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 62326-20 has been prepared by IEC technical committee 91: Electronics assembly technology.

This first edition cancels and replaces the IEC/PAS 62326-20 published in 2011, and constitutes a technical revision.

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

a) this edition focuses on the technical content of the printed circuit board for high-brightness LEDs;
b) the figures related to the printed circuit board for high-brightness LEDs have been refined.

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

FDIS	Report on voting
91/1311/FDIS	91/1330/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.

A list of all parts in the IEC 62326 series, published under the general title *Printed boards*, can be found on the IEC website.

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 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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PRINTED BOARDS –

Part 20: Printed circuit boards for high-brightness LEDs

1 Scope

This part of IEC 62326 specifies the properties of the printed circuit board (hereafter described as PCB) for high-brightness LEDs. Many aspects of the PCB for high-brightness LEDs are identical with those of ordinary PCBs, therefore, some aspects of this standard also describe general aspects.

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 60194, *Printed board design, manufacture and assembly – Terms and definitions*

IEC 61189-3:2007, *Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 3: Test methods for interconnection structures (printed boards)*

IEC 61249-2-6, *Materials for printed boards and other interconnecting structures – Part 2-6: Reinforced base materials, clad and unclad – Brominated epoxide non-woven/woven E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad*

IEC 61249-2-7, *Materials for printed boards and other interconnecting structures – Part 2-7: Reinforced base materials clad and unclad – Epoxide woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad*

IEC 62878-1-1, *Device embedded substrate – Part 1-1: Generic specification – Test methods*