IEC 62326-20

Edition 1.0 2016-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Printed boards –
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)

IEC Central Office
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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FOREWORD

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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- withdrawn,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*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60194 apply.

3.2 Abbreviations

AABUS As Agreed Between User amd Supplier
BGA Ball Grid Array
CCL Copper Clad Laminate
COB Chip On Board
CSP Chip size package
HID High Intensity Discharge
LED Light Emitting Diode
PCB Printed Circuit Board