



# TECHNICAL REPORT



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**Test methods for electrical materials, printed boards and other interconnection structures and assemblies –  
Part 3-914: Test method for thermal conductivity of printed circuit boards for high-brightness LEDs – Guidelines**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **TEST METHODS FOR ELECTRICAL MATERIALS, PRINTED BOARDS AND OTHER INTERCONNECTION STRUCTURES AND ASSEMBLIES –**

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IEC TR 61189-3-914, which is a technical report, has been prepared by IEC technical committee 91: Electronics assembly technology.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
91/1378/DTR	91/1403/RVC

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

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

A list of all parts in the IEC 61189 series, published under the general title *Test methods for electrical materials, printed boards and other interconnection structures and assemblies*, can be found on the IEC website.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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## INTRODUCTION

Development of this technical report has been discussed at TC 91 Plenary meeting in Dongguan, China, October 30, 2015 as per 91/1343A/RM dated on January 22, 2016.

This document was developed as a supplementary document to the IEC 61189-3-913. Therefore, this document has been developed as technical report.

This document is given for information only.

## **TEST METHODS FOR ELECTRICAL MATERIALS, PRINTED BOARDS AND OTHER INTERCONNECTION STRUCTURES AND ASSEMBLIES –**

### **Part 3-914: Test method for thermal conductivity of printed circuit boards for high-brightness LEDs – Guidelines**

#### **1 Scope**

This document specifies the detailed procedures and precautions for IEC 61189-3-913.

#### **2 Normative references**

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.

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

IEC 60068-1:2013, *Environmental testing – Part 1: General and guidance*

IEC 61189-3-913, *Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 3-913: Test method for thermal conductivity of electronic circuit boards for high-brightness LEDs*

EIA/JEDEC STD 51-2, *Integrated circuits thermal test method – Environmental conditions – Natural convection (still air)*