



**SLOVENSKI STANDARD**  
**SIST EN IEC 61189-2-801:2023**

**01-november-2023**

---

**Preskusne metode za električne materiale, tiskana vezja in druge povezovalne strukture in sestave - 2-801. del: Preskus toplotne prevodnosti osnovnih materialov**

Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 2-801: Thermal conductivity test for base materials

Prüfverfahren für Elektromaterialien, Leiterplatten und andere Verbindungsstrukturen und Baugruppen – Teil 2-801: Prüfung der thermischen Leitfähigkeit für Grundwerkstoffe

Méthodes d'essai pour les matériaux électriques, les cartes imprimées et autres structures d'interconnexion et ensembles - Partie 2-801: Essai de conductivité thermique pour matériaux de base

[SIST EN IEC 61189-2-801:2023](https://standards.iteh.ai/SIST/EN-IEC-61189-2-801-2023)

[https://standards.iteh.ai/SIST/EN-IEC-61189-2-801:2023](https://standards.iteh.ai/SIST/EN-IEC-61189-2-801-2023) Ta slovenski standard je istoveten z: [EN IEC 61189-2-801:2023](https://standards.iteh.ai/SIST/EN-IEC-61189-2-801-2023)

---

**ICS:**

31.180 Tiskana vezja (TIV) in tiskane Printed circuits and boards plošče

**SIST EN IEC 61189-2-801:2023**

**en**



EUROPEAN STANDARD

**EN IEC 61189-2-801**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2023

ICS 31.180

English Version

Test methods for electrical materials, printed boards and other interconnection structures and assemblies - Part 2-801: Thermal conductivity test for base materials  
(IEC 61189-2-801:2023)

Méthodes d'essai pour les matériaux électriques, les cartes imprimées et autres structures d'interconnexion et ensembles - Partie 2-801: Essai de conductivité thermique pour matériaux de base  
(IEC 61189-2-801:2023)

Prüfverfahren für Elektromaterialien, Leiterplatten und andere Verbindungsstrukturen und Baugruppen - Teil 2-801: Prüfung der thermischen Leitfähigkeit für Grundwerkstoffe  
(IEC 61189-2-801:2023)

This European Standard was approved by CENELEC on 2023-08-30. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

<https://standards.iteh.ai/catalog/standards/sist/3f51b694-70c3-4673-9930-2cddabdb58a3/sist-en-iec-61189-2-801-2023>



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

## EN IEC 61189-2-801:2023 (E)

### European foreword

The text of document 91/1757/CDV, future edition 1 of IEC 61189-2-801, prepared by IEC/TC 91 "Electronics assembly technology" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61189-2-801:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-05-30 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-08-30 document have to be withdrawn

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.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

### Endorsement notice

The text of the International Standard IEC 61189-2-801:2023 was approved by CENELEC as a European Standard without any modification.

(<https://standards.iteh.ai>)  
Document Preview

[SIST EN IEC 61189-2-801:2023](https://standards.iteh.ai/catalog/standards/sist/3f51b694-70c3-4673-9930-2cddabdb58a3/sist-en-iec-61189-2-801-2023)

<https://standards.iteh.ai/catalog/standards/sist/3f51b694-70c3-4673-9930-2cddabdb58a3/sist-en-iec-61189-2-801-2023>



IEC 61189-2-801

Edition 1.0 2023-07

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Test methods for electrical materials, printed boards and other interconnection structures and assemblies –  
Part 2-801: Thermal conductivity test for base materials**

**Méthodes d'essai pour les matériaux électriques, les cartes imprimées et autres structures d'interconnexion et ensembles –  
Partie 2-801: Essai de conductivité thermique pour matériaux de base**

[SIST EN IEC 61189-2-801:2023](https://standards.iteh.ai/catalog/standards/sist/3f51b694-70c3-4673-9930-2cddabdb58a3/sist-en-iec-61189-2-801-2023)

<https://standards.iteh.ai/catalog/standards/sist/3f51b694-70c3-4673-9930-2cddabdb58a3/sist-en-iec-61189-2-801-2023>

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 31.180

ISBN 978-2-8322-7258-9

**Warning! Make sure that you obtained this publication from an authorized distributor.  
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

## CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 Applicability and use of data .....	5
5 Test specimens .....	5
5.1 Number.....	5
5.2 Form.....	5
5.3 Preparation of the test specimen.....	6
6 Materials and equipment.....	8
7 Procedure.....	9
7.1 Pre-conditioning.....	9
7.2 Test conditions .....	9
7.3 Equipment set-up.....	9
7.4 Equipment calibration .....	9
7.5 Test method.....	10
8 Calculations.....	10
9 Report .....	10
Bibliography.....	11
Figure 1 – Specimen dimensions .....	6
Figure 2 – Location of 0,55 mm hole .....	6
Figure 3 – Example of carbon ink deposited on a screen prior to printing.....	7
Figure 4 – Specimen after first screen printing.....	7
Figure 5 – Finished specimen .....	8
Figure 6 – Set-up of the sensor calibration.....	10

ITen Standards

(<https://standards.itel.ai>)

Document Draft

SIST EN IEC 61189-2-801:2023

<https://standards.itel.ai/standards/iec/61189-2-801-2023>