

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Printed board assemblies –  
Part 3: Sectional specification – Requirements for through-hole mount soldered  
assemblies**

**Ensembles de cartes imprimées –  
Partie 3: Spécification intermédiaire – Exigences relatives à l'assemblage par  
brasage de trous traversants**



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## PRINTED BOARD ASSEMBLIES –

**Part 3: Sectional specification – Requirements  
for through-hole mount soldered assemblies**

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International Standard IEC 61191-3 has been prepared by WG 2: Requirements for electronics assemblies, of IEC technical committee 91: Electronics assembly technology.

This bilingual version (2019-09) corresponds to the monolingual English version, published in 2017-05.

This second edition cancels and replaces the first edition published in 1998. This edition constitutes a technical revision.

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

- a) The requirements have been updated to be compliant with the acceptance criteria in IPC-A-610F.

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

CDV	Report on voting
91/1375/CDV	91/1435/RVC

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

The French version of this standard has not been voted upon.

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

A list of all parts in the IEC 61191 series, published under the general title *Printed board 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- withdrawn,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.

## PRINTED BOARD ASSEMBLIES –

### Part 3: Sectional specification – Requirements for through-hole mount soldered assemblies

#### 1 Scope

This part of IEC 61191 prescribes requirements for lead and hole solder assemblies. The requirements pertain to those assemblies that totally use through-hole mounting technology (THT), or the THT portions of those assemblies that include other related technologies (i.e. surface mount, chip mounting, terminal mounting).

#### 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 61191-1:2013, *Printed board assemblies – Part 1: Generic specification – Requirements for soldered electrical and electronic assemblies using surface mount and related assembly technologies*

IPC-A-610, *Acceptability of Electronic Assemblies*

#### 3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia, available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

##### 3.1

##### THT

##### through-hole technology

technology that permits an electrical connection of components to a conductive pattern by the use of plated or non-plated holes with annular rings in the mounting substrate

#### 4 General requirements

Requirements of IEC 61191-1 are a mandatory part of this specification. Workmanship shall meet the requirements of IPC-A-610 in accordance with the classification requirements of this document.