



# SLOVENSKI STANDARD

## SIST EN 60384-18:2016

01-november-2016

Nadomešča:

SIST EN 60384-18:2008

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**Nespremenljivi kondenzatorji za uporabo v elektronski opremi - 18. del: Področna specifikacija - Nespremenljivi aluminijaki elektrolitski kondenzatorji s trdim (MnO<sub>2</sub>) in netrdim elektrolitom za površinsko montažo (IEC 60384-18:2016)**

Fixed capacitors for use in electronic equipment - Part 18: Sectional specification - Fixed aluminium electrolytic surface mount capacitors with solid (MnO<sub>2</sub>) and non-solid electrolyte (IEC 60384-18:2016)

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**Ta slovenski standard je istoveten z: EN 60384-18:2016**

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**ICS:**

|           |  |                                   |
|-----------|--|-----------------------------------|
| 31.060.50 | Aluminijaki elektrolitni kondenzatorji | Aluminium electrolytic capacitors |
|-----------|--|-----------------------------------|

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EUROPEAN STANDARD

**EN 60384-18**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2016

ICS 31.060.50

Supersedes EN 60384-18:2007

English Version

**Fixed capacitors for use in electronic equipment - Part 18:  
Sectional specification - Fixed aluminium electrolytic surface  
mount capacitors with solid (MnO<sub>2</sub>) and non-solid electrolyte  
(IEC 60384-18:2016)**

Condensateurs fixes utilisés dans les équipements  
électroniques - Partie 18: Spécification intermédiaire -  
Condensateurs fixes électrolytiques à l'aluminium pour  
montage en surface à électrolyte solide (MnO<sub>2</sub>) et non  
solide  
(IEC 60384-18:2016)

Festkondensatoren zur Verwendung in Geräten der  
Elektronik - Teil 18: Rahmenspezifikation -  
Oberflächenmontierbare Aluminium-Elektrolyt-  
Kondensatoren mit festen (MnO<sub>2</sub>) und flüssigen  
Elektrolyten  
(IEC 60384-18:2016)

This European Standard was approved by CENELEC on 2016-06-29. 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.

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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**

**EN 60384-18:2016****European foreword**

The text of document 40/2460/FDIS, future edition 3 of IEC 60384-18, prepared by IEC/TC 40 "Capacitors and resistors for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60384-18:2016.

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) 2017-03-29
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-06-29

This document supersedes EN 60384-18:2007.

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## 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](http://www.cenelec.eu).

| <u>Publication</u> | <u>Year</u> | <u>Title</u>   | <u>EN/HD</u>  | <u>Year</u> |
|--------------------|-------------|--|---------------|-------------|
| IEC 60063          | -           | Preferred number series for resistors and capacitors   | EN 60063      | -           |
| IEC 60068-1        | 2013        | Environmental testing -- Part 1: General and guidance  | EN 60068-1    | 2014        |
| IEC 60068-2-58     | 2015        | Environmental testing - Part 2-58: Tests - Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD) | EN 60068-2-58 | 2015        |
| IEC 60384-1        | 2016        | Fixed capacitors for use in electronic equipment - Part 1: Generic specification   | EN 60384-1    | 2016        |
| IEC 60417          | -           | Graphical symbols for use on equipment. Index, survey and compilation of the single sheets.  | -             | -           |
| IEC 61193-2        | 2007        | Quality assessment systems -- Part 2: Selection and use of sampling plans for inspection of electronic components and packages   | EN 61193-2    | 2007        |
| ISO 3              | -           | Preferred numbers. Series of preferred numbers   | -             | -           |

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IEC 60384-18

Edition 3.0 2016-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Fixed capacitors for use in electronic equipment –  
Part 18: Sectional specification – Fixed aluminium electrolytic surface mount  
capacitors with solid (MnO<sub>2</sub>) and non-solid electrolyte**

**Condensateurs fixes utilisés dans les équipements électroniques –  
Partie 18: Spécification intermédiaire – Condensateurs fixes électrolytiques à  
l'aluminium pour montage en surface à électrolyte solide (MnO<sub>2</sub>) et non solide**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 31.060.50

ISBN 978-2-8322-3423-5

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –****Part 18: Sectional specification –  
Fixed aluminium electrolytic surface mount capacitors  
with solid (MnO<sub>2</sub>) and non-solid electrolyte**

## FOREWORD

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International Standard IEC 60384-18 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This third edition cancels and replaces the second edition published in 2007 and constitutes a technical revision.

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

- a) Revision of the structure in accordance with ISO/IEC Directives, Part 2:2011 (sixth edition) to the extent practicable, and harmonization between other similar kinds of documents.

- b) In addition, Clause 4 and all the tables have been reviewed in order to prevent duplications and contradictions.

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

| FDIS         | Report on voting |
|--------------|------------------|
| 40/2460/FDIS | 40/2466/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.

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

The list of all parts of the IEC 60384 series, under the general title *Fixed capacitors for use in electronic equipment*, can be found on the IEC website.

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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