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Fixed capacitors for use in electronic equipment - Part 18: Sectional specification - Fixed aluminium electrolytic surface mount capacitors with solid (MnO₂) and non-solid electrolyte (IEC 60384-18:2007)

Festkondensatoren zur Verwendung in Geräten der Elektronik - Teil 18:
Rahmenspezifikation - Oberflächenmontierbare Aluminium-Elektrolyt-Kondensatoren mit festen (MnO₂) und flüssigen Elektrolyten (IEC 60384-18:2007)

SIST EN 60384-18:2008
Condensateurs fixes utilisés dans les équipements électroniques - Partie 18:
Spécification intermédiaire - Condensateurs fixes électrolytiques en aluminium pour montage en surface à électrolyte solide (MnO₂) et non solide (IEC 60384-18:2007)

Ta slovenski standard je istoveten z: EN 60384-18:2007

ICS:

31.060.50	Aluminijski elektrolitni kondenzatorji	Aluminium electrolytic capacitors
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SIST EN 60384-18:2008

en,de

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SIST EN 60384-18:2008

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**Fixed capacitors for use in electronic equipment -
Part 18: Sectional specification -
Fixed aluminium electrolytic surface mount capacitors
with solid (MnO₂) and non-solid electrolyte
(IEC 60384-18:2007)**

Condensateurs fixes utilisés
dans les équipements électroniques -
Partie 18: Spécification intermédiaire -
Condensateurs fixes électrolytiques
en aluminium pour montage en surface
à électrolyte solide (MnO₂) et non solide
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Festkondensatoren zur Verwendung
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Teil 18: Rahmenspezifikation -
Oberflächenmontierbare
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mit festen (MnO₂)
und flüssigen Elektrolyten
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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 40/1764/CDV, future edition 2 of IEC 60384-18, prepared by IEC TC 40, Capacitors and resistors for electronic equipment, was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as EN 60384-18 on 2007-04-01.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2008-01-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2010-04-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60384-18:2007 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60063	- ¹⁾	Preferred number series for resistors and capacitors	-	-
IEC 60068-1	- ¹⁾	Environmental testing - Part 1: General and guidance	EN 60068-1	1994 ²⁾
IEC 60068-2-58	2004	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 + corr. December	2004 2004
IEC 60384-1 (mod)	1999	Fixed capacitors for use in electronic equipment Part 1: Generic specification	EN 60384-1 + corr. October	2001 2001
IEC 60384-18-1	- ¹⁾	Fixed capacitors for use in electronic equipment - Part 18-1: Blank detail specification - Fixed aluminium electrolytic surface mount capacitors with solid (MnO ₂) electrolyte - Assessment level EZ	EN 60384-18-1	2007 ²⁾
IEC 60384-18-2	- ¹⁾	Fixed capacitors for use in electronic equipment - Part 18-2: Blank detail specification - Fixed aluminium electrolytic surface mount capacitors with non-solid electrolyte - Assessment level EZ	EN 60384-18-2	2007 ²⁾
IEC 60410	- ¹⁾	Sampling plans and procedures for inspection - by attributes	-	-
ISO 3	- ¹⁾	Preferred numbers - Series of preferred numbers	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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INTERNATIONAL STANDARD

IEC
60384-18

QC 302300

Second edition
2007-03

Fixed capacitors for use in electronic equipment –

Part 18:

Sectional specification –

Fixed aluminium electrolytic surface mount capacitors with solid (MnO₂) and non-solid electrolyte

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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 (MnO₂) 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 second edition cancels and replaces the first edition published in 1993 and its amendment 1 (1998). This edition constitutes a minor revision related to tables, figures and references.

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

CDV	Report on voting
40/1764/CDV	40/1822/RVC

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 QC number that appears on the front cover of this publication is the specification number in the IEC Quality Assessment System for Electronic Components (IECQ).

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 maintenance result date indicated on the IEC web site 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.

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

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FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

Part 18: Sectional specification – Fixed aluminium electrolytic surface mount capacitors with solid (MnO₂) and non-solid electrolyte

1 General

1.1 Scope

This part of IEC 60384 applies to fixed aluminium electrolytic surface mount capacitors with solid (MnO₂) and non-solid electrolyte primarily intended for d.c. applications for use in electronic equipment.

1.2 Object

The object of this standard is to prescribe preferred ratings and characteristics and to select from IEC 60384-1 the appropriate quality assessment procedures, tests and measuring methods and to give general performance requirements for this type of capacitor. Test severities and requirements prescribed in detail specifications referring to this sectional specification should be of equal or higher performance level, because lower performance levels are not permitted.

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1.3 Normative references

The following referenced documents are indispensable for the application 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 60063, *Preferred number series for resistors and capacitors*

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

IEC 60068-2-58:2004, *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)*

IEC 60384-1:1999, *Fixed capacitors for use in electronic equipment – Part 1: Generic specification*

IEC 60384-18-1, *Fixed capacitors for use in electronic equipment – Part 18-1: Blank detail specification – Fixed aluminium electrolytic chip capacitors with solid (MnO₂) electrolyte - Assessment level EZ*

IEC 60384-18-2, *Fixed capacitors for use in electronic equipment – Part 18-2: Blank detail specification – Fixed aluminium electrolytic chip capacitors with non-solid electrolyte - Assessment level EZ*

IEC 60410, *Sampling plans and procedures for inspection by attributes*

ISO 3, *Preferred numbers – Series of preferred numbers*