

STN	Nepremenné kondenzátory na použitie v elektronických zariadeniach. Časť 3: Rámcová špecifikácia. Nepremenné elektrolytické tantalové kondenzátory s tuhým elektrolytom (MnO ₂) na povrchovú montáž.	STN EN 60384-3 35 8295
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Fixed capacitors for use in electronic equipment - Part 3: Sectional specification - Surface mount fixed tantalum electrolytic capacitors with solid (MnO₂) electrolyte

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/17

Obsahuje: EN 60384-3:2016, IEC 60384-3:2016

Oznámením tejto normy sa od 16.08.2019 ruší
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60384-3

October 2016

ICS 31.060.30

Supersedes EN 60384-3:2006

English Version

**Fixed capacitors for use in electronic equipment -
Part 3: Sectional specification - Surface mount fixed tantalum
electrolytic capacitors with solid (MnO₂) electrolyte
(IEC 60384-3:2016)**

Condensateurs fixes utilisés dans les équipements
électroniques - Partie 3: Spécification intermédiaire -
Condensateurs fixes électrolytiques au tantale pour
montage en surface, à électrolyte solide (MnO₂)
(IEC 60384-3:2016)

Festkondensatoren zur Verwendung in Geräten der
Elektronik - Teil 3: Rahmenspezifikation -
Oberflächenmontierbare Tantal-Kondensatoren mit festem
(MnO₂)-Elektrolyt
(IEC 60384-3:2016)

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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

European foreword

The text of document 40/2464/FDIS, future edition 4 of IEC 60384-3, 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 60384-3:2016.

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) 2017-05-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-08-16

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In the official version, for Bibliography, the following note has to be added for the standard indicated :

IEC 60068-2-58:2015 NOTE Harmonized as EN 60068-2-58:2015 (not modified).

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60062	-	Marking codes for resistors and capacitors	EN 60062	-
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 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	-	-
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	-	-



INTERNATIONAL STANDARD

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Partie 3: Spécification intermédiaire – Condensateurs fixes électrolytiques
au tantale pour montage en surface, à électrolyte solide (MnO₂)**



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fixed capacitors for use in electronic equipment –
Part 3: Sectional specification – Surface mount fixed tantalum electrolytic
capacitors with solid (MnO₂) electrolyte**

**Condensateurs fixes utilisés dans les équipements électroniques –
Partie 3: Spécification intermédiaire – Condensateurs fixes électrolytiques
au tantale pour montage en surface, à électrolyte solide (MnO₂)**

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CONTENTS

FOREWORD.....	5
1 General.....	7
1.1 Scope.....	7
1.2 Object.....	7
1.3 Normative references.....	7
1.4 Information to be given in a detail specification.....	8
1.4.1 General.....	8
1.4.2 Outline drawing and dimensions.....	8
1.4.3 Mounting.....	8
1.4.4 Ratings and characteristics.....	8
1.4.5 Marking.....	9
1.5 Terms and definitions.....	9
1.6 Marking.....	9
1.6.1 General.....	9
1.6.2 Information for marking.....	9
1.6.3 Marking on capacitors.....	9
1.6.4 Marking on packaging.....	10
2 Preferred ratings and characteristics.....	10
2.1 Preferred characteristics.....	10
2.2 Preferred values of ratings.....	10
2.2.1 Nominal capacitance (C_N).....	10
2.2.2 Tolerance on nominal capacitance.....	11
2.2.3 Rated voltage (U_R).....	11
2.2.4 Category voltage (U_C).....	11
2.2.5 Surge voltage (U_{RS} or U_{CS}).....	11
2.2.6 Rated temperature.....	11
3 Quality assessment procedures.....	12
3.1 Primary stage of manufacture.....	12
3.2 Structurally similar components.....	12
3.3 Certified test records of released lots.....	12
3.4 Qualification approval procedures.....	12
3.4.1 General.....	12
3.4.2 Qualification approval on the basis of the fixed sample size procedure.....	12
3.4.3 Tests.....	13
3.5 Quality conformance inspection.....	20
3.5.1 Formation of inspection lots.....	20
3.5.2 Test schedule.....	20
3.5.3 Delayed delivery.....	20
3.5.4 Assessment levels.....	20
4 Test and measurement procedures.....	21
4.1 Drying.....	22
4.2 Measuring conditions.....	22
4.3 Mounting.....	22
4.3.1 General.....	22
4.3.2 Initial inspection.....	22
4.3.3 Final inspections.....	22

4.4	Visual examination and check of dimensions	22
4.4.1	General	22
4.4.2	Visual examination and check of dimensions	22
4.4.3	Requirements	22
4.5	Electrical tests	22
4.5.1	Leakage current.....	22
4.5.2	Capacitance.....	23
4.5.3	Tangent of loss angle ($\tan \delta$).....	23
4.5.4	Impedance (if required)	23
4.5.5	Equivalent series resistance (ESR) (if required)	24
4.6	Resistance to soldering heat	24
4.6.1	General	24
4.6.2	Test conditions	24
4.6.3	Recovery	24
4.6.4	Final inspections and requirements	25
4.7	Solderability.....	25
4.7.1	General	25
4.7.2	Test conditions	25
4.7.3	Final inspections and requirements	25
4.8	Shear test.....	25
4.8.1	General	25
4.8.2	Final inspections and requirements	25
4.9	Substrate bending test	25
4.9.1	General	25
4.9.2	Final inspections and requirements	25
4.10	Rapid change of temperature	25
4.10.1	General	25
4.10.2	Initial inspection	25
4.10.3	Test conditions	25
4.10.4	Recovery	26
4.10.5	Final inspections and requirements	26
4.11	Climatic sequence (if required)	26
4.11.1	General	26
4.11.2	Initial inspections	26
4.11.3	Dry heat.....	26
4.11.4	Damp heat, cyclic, test Db, first cycle	26
4.11.5	Cold.....	26
4.11.6	Damp heat, cyclic, test Db, remaining cycles	26
4.11.7	Recovery	26
4.11.8	Final inspections and requirements	26
4.12	Damp heat, steady state (if required)	26
4.12.1	General	26
4.12.2	Initial inspections	27
4.12.3	Test conditions	27
4.12.4	Recovery	27
4.12.5	Final inspections and requirements	27
4.13	Characteristics at high and low temperature.....	27
4.13.1	General	27
4.13.2	Inspections and requirements.....	27

4.14	Surge voltage.....	27
4.14.1	General	27
4.14.2	Initial inspections	27
4.14.3	Test conditions	27
4.14.4	Recovery	28
4.14.5	Final inspections and requirements	28
4.15	Endurance	28
4.15.1	General	28
4.15.2	Initial inspections	28
4.15.3	Test conditions	28
4.15.4	Recovery	28
4.15.5	Final inspections and requirements	29
4.16	Reverse voltage (if required)	29
4.16.1	Initial inspections	29
4.16.2	Test conditions	29
4.16.3	Recovery	29
4.16.4	Final inspections and requirements	29
4.17	Component solvent resistance (if required)	29
4.18	Solvent resistance of the marking (if required)	29
4.19	High surge current (if required).....	29
	Bibliography	30
	Table 1 – Letter code and digit.....	10
	Table 2 – Category voltages and surge voltages.....	11
	Table 3 – Sampling plan for qualification approval, assessment level EZ.....	14
	Table 4 – Test schedule for qualification approval	15
	Table 5 – Lot-by-lot inspection	21
	Table 6 – Periodic inspection	21
	Table 7 – Test temperatures	28

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –**Part 3: Sectional specification – Surface mount fixed tantalum electrolytic capacitors with solid (MnO₂) electrolyte**

FOREWORD

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International Standard IEC 60384-3 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This fourth edition cancels and replaces the third edition published in 2006 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
40/2464/FDIS	40/2470/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 the 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.

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

Part 3: Sectional specification – Surface mount fixed tantalum electrolytic capacitors with solid (MnO₂) electrolyte

1 General

1.1 Scope

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

These capacitors are primarily intended for use in electronic equipment to be mounted directly on substrates for hybrid circuits or to printed boards.

Capacitors for special-purpose applications may need additional requirements.

The following two styles are considered:

- Style 1: Capacitors protected with external materials;
- Style 2: Capacitors unprotected with external materials.

1.2 Object

The object of this standard is to prescribe preferred ratings and characteristics and to select from IEC 60384-1:2016 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.

1.3 Normative references

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.

IEC 60062, *Marking codes for resistors and capacitors*

IEC 60063, *Preferred number series for resistors and capacitors*

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

IEC 60384-1:2016, *Fixed capacitors for use in electronic equipment – Part 1: Generic specification*

IEC 60417, *Graphical symbols for use on equipment*

IEC 61193-2:2007, *Quality assessment system – Part 2: Selection and use of sampling plans for inspection of electronic components and packages*

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

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