



# SLOVENSKI STANDARD

## SIST EN 60384-9:2015

01-september-2015

Nadomešča:

SIST EN 60384-9:2005

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**Pritrjeni kondenzatorji za uporabo v elektronski opremi - 9. del: Področna specifikacija: pritrjeni kondenzatorji s keramičnim dielektrikom, razred 2**

Fixed capacitors for use in electronic equipment -- Part 9: Sectional specification: Fixed capacitors of ceramic dielectric, Class 2

Festkondensatoren zur Verwendung in Geräten der Elektronik - Teil 9: Rahmenspezifikation – Keramik-Festkondensatoren, Klasse 2

Condensateurs fixes utilisés dans les équipements électroniques - Partie 9: Spécification intermédiaire: Condensateurs fixes à diélectrique en céramique, Classe 2

**Ta slovenski standard je istoveten z: EN 60384-9:2015**

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**ICS:**

31.060.10      Fiksni kondenzatorji      Fixed capacitors

**SIST EN 60384-9:2015**

**en**

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EUROPEAN STANDARD

**EN 60384-9**

NORME EUROPÉENNE

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May 2015

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Supersedes EN 60384-9:2005

English Version

Fixed capacitors for use in electronic equipment - Part 9:  
Sectional specification: Fixed capacitors of ceramic dielectric,  
Class 2  
(IEC 60384-9:2015)

Condensateurs fixes utilisés dans les équipements  
électroniques - Partie 9: Spécification intermédiaire:  
Condensateurs fixes à diélectrique en céramique, Classe 2  
(IEC 60384-9:2015)

Festkondensatoren zur Verwendung in Geräten der  
Elektronik - Teil 9: Rahmenspezifikation - Keramik-  
Festkondensatoren, Klasse 2  
(IEC 60384-9:2015)

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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

## Foreword

The text of document 40/2339/FDIS, future edition 4 of IEC 60384-9, prepared by IEC TC 40, "Capacitors and resistors for electronic equipment" was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60384-9:2015.

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) 2016-01-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-04-14

This document supersedes EN 60384-9:2005.

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## Endorsement notice

The text of the International Standard IEC 60384-9:2015 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60384-14

NOTE Harmonized as EN 60384-14.

IEC 60384-22

NOTE Harmonized as EN 60384-22.

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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	1963	Preferred number series for resistors and capacitors	-	-
+A1	1967		-	-
+A2	1977		-	-
IEC 60068-1	2013	Environmental testing -- Part 1: General and guidance	EN 60068-1	2014
IEC 60384-1	2008	Fixed capacitors for use in electronic equipment -- Part 1: Generic specification	EN 60384-1	2009
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	1973	Preferred numbers; Series of preferred numbers	-	-

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IEC 60384-9

Edition 4.0 2015-03

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fixed capacitors for use in electronic equipment –  
Part 9: Sectional specification: Fixed capacitors of ceramic dielectric, Class 2**  
(standards.itec.ai)

**Condensateurs fixes utilisés dans les équipements électroniques –  
Partie 9: Spécification intermédiaire: Condensateurs fixes à diélectrique en  
céramique, Classe 2**  
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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 .....	7
1.4.1 General .....	7
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 Marking on the body .....	10
1.6.3 Marking of the packaging .....	10
1.6.4 Additional marking .....	10
2 Preferred ratings and characteristics .....	10
2.1 Preferred characteristics .....	10
2.2 Preferred values of ratings .....	10
2.2.1 Rated temperature .....	10
2.2.2 Rated voltage ( $U_R$ ) .....	10
2.2.3 Category voltage ( $U_C$ ) .....	11
2.2.4 Preferred values of nominal capacitance and associated tolerance values .....	11
2.2.5 Temperature characteristic of capacitance .....	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 .....	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 .....	18
3.5.1 Formation of inspection lots .....	18
3.5.2 Test schedule .....	19
3.5.3 Delayed delivery .....	19
3.5.4 Assessment levels .....	19
4 Test and measurement procedures .....	20
4.1 General .....	20
4.2 Special preconditioning .....	20
4.3 Visual examination and check of dimensions .....	20
4.4 Electrical tests .....	20
4.4.1 Capacitance .....	20
4.4.2 Tangent of loss angle ( $\tan \delta$ ) .....	21



4.4.3	Insulation resistance ( $R_i$ ) .....	21
4.4.4	Voltage proof .....	22
4.5	Temperature characteristic of capacitance .....	23
4.5.1	Special preconditioning .....	23
4.5.2	Measuring conditions .....	23
4.5.3	Requirements .....	23
4.6	Robustness of terminations .....	23
4.7	Resistance to soldering heat .....	23
4.7.1	General .....	23
4.7.2	Special preconditioning .....	24
4.7.3	Initial measurement .....	24
4.7.4	Recovery .....	24
4.7.5	Final inspection, measurements and requirements .....	24
4.8	Solderability .....	24
4.8.1	General .....	24
4.8.2	Test conditions .....	24
4.8.3	Final inspection, measurements and requirements .....	24
4.9	Rapid change of temperature (if required) .....	24
4.9.1	General .....	24
4.9.2	Special preconditioning .....	24
4.9.3	Initial measurement .....	25
4.9.4	Test conditions .....	25
4.9.5	Recovery .....	25
4.10	Vibration .....	25
4.10.1	General .....	25
4.10.2	Test conditions .....	25
4.10.3	Final inspection, measurements and requirements .....	25
4.11	Bump (repetitive shock) .....	25
4.11.1	General .....	25
4.11.2	Initial measurements .....	25
4.11.3	Test conditions .....	25
4.11.4	Final inspection, measurements and requirements .....	26
4.12	Shock (non-repetitive shock) .....	26
4.12.1	General .....	26
4.12.2	Initial measurements .....	26
4.12.3	Test conditions .....	26
4.12.4	Final inspection, measurements and requirements .....	26
4.13	Climatic sequence .....	27
4.13.1	General .....	27
4.13.2	Special preconditioning .....	27
4.13.3	Initial measurements .....	27
4.13.4	Dry heat .....	27
4.13.5	Damp heat, cyclic, Test Db, first cycle .....	27
4.13.6	Cold .....	27
4.13.7	Low air pressure .....	27
4.13.8	Damp heat, cyclic, Test Db, remaining cycles .....	28
4.14	Damp heat, steady state .....	28
4.14.1	General .....	28
4.14.2	Special preconditioning .....	28

4.14.3	Initial measurement .....	29
4.14.4	Test conditions .....	29
4.14.5	Recovery .....	29
4.14.6	Final inspection, measurements and requirements.....	29
4.15	Endurance .....	30
4.15.1	General .....	30
4.15.2	Special preconditioning.....	30
4.15.3	Initial measurement .....	30
4.15.4	Test conditions .....	30
4.15.5	Recovery .....	30
4.15.6	Final inspection, measurements and requirements.....	30
4.16	Component solvent resistance (if applicable) .....	31
4.17	Solvent resistance of the marking (if applicable) .....	31
Annex A (informative)	Capacitance ageing of fixed capacitors of ceramic dielectric, Class 2 .....	32
A.1	General.....	32
A.2	Law of capacitance ageing.....	32
A.3	Capacitance measurements and capacitance tolerance (see 4.4.1).....	33
A.4	Special preconditioning (see 4.2).....	33
Bibliography	.....	35

## iTeh STANDARD PREVIEW

Table 1 – Preferred tolerance on nominal capacitance .....	11
Table 2 – Preferred values of temperature characteristics.....	11
Table 3 – Sampling plan together with numbers of permissible non-conforming items for qualification approval tests, assessment level EZ.....	14
Table 4 – Test schedule for qualification approval .....	15
Table 5 – Lot-by-lot inspection .....	19
Table 6 – Periodic tests .....	20
Table 7 – Measuring conditions .....	21
Table 8 – Insulation resistance requirements .....	22
Table 9 – Test voltages.....	22
Table 10 – Details of measuring conditions .....	23
Table 11 – Maximum capacitance change.....	24
Table 12 – Preferred severities (of non-repetitive shock) .....	26
Table 13 – Maximum capacitance change.....	27
Table 14 – Number of damp heat cycles .....	28
Table 15 – Final inspection measurements and requirements .....	28
Table 16 – Test conditions for damp heat, steady state.....	29
Table 17 – Final inspection, measurements and requirements .....	29
Table 18 – Endurance test conditions .....	30
Table 19 – Final inspection, measurements and requirements .....	30

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –****Part 9: Sectional specification:  
Fixed capacitors of ceramic dielectric, Class 2**

## FOREWORD

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International Standard IEC 60384-9 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 2005. This fourth edition is a result of maintenance activities related to the previous edition. All changes that have been agreed upon can be categorized as minor revisions.

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

FDIS	Report on voting
40/2339/FDIS	40/2364/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.

A list of all parts in the IEC 60384 series, published 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 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.

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## FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

### Part 9: Sectional specification: Fixed capacitors of ceramic dielectric, Class 2

## 1 General

### 1.1 Scope

This part of IEC 60384 is applicable to fixed capacitors of ceramic dielectric with a defined temperature coefficient (dielectric Class 2), intended for use in electronic equipment, including leadless capacitors but excluding fixed surface mount multilayer capacitors of ceramic dielectric, which are covered by IEC 60384-22 (Class 2).

Capacitors for electromagnetic interference suppression are not included, but are covered by IEC 60384-14.

### 1.2 Object

The object of this standard is to prescribe preferred ratings and characteristics and to select from IEC 60384-1:2008 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 shall be of equal or higher performance level because lower performance levels are not permitted.

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### 1.3 Normative references

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IEC 60063:1963, *Preferred number series for resistors and capacitors*  
IEC 60063:1963/AMD1:1967  
IEC 60063:1963/AMD2:1977

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

IEC 60384-1:2008, *Fixed capacitors for use in electronic equipment – Part 1: Generic specification*

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

ISO 3:1973, *Preferred numbers – Series of preferred numbers*

### 1.4 Information to be given in a detail specification

#### 1.4.1 General

Detail specifications shall be derived from the relevant blank detail specification.

Detail specifications shall not specify requirements inferior to those of the generic, sectional or blank detail specification. When more severe requirements are included, they shall be