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**Pritrjeni kondenzatorji za uporabo v elektronski opremi – 8-1. del: Okvirna  
podrobna specifikacija – Pritrjeni kondenzatorji s keramičnim dielektrikom,  
razred 1 – Raven ocenjevanja EZ (IEC 60384-8-1:2005)**

Fixed capacitors for use in electronic equipment – Part 8-1: Blank detail  
specification: Fixed capacitors of ceramic dielectric, Class 1 – Assessment level EZ  
(IEC 60384-8-1:2005)

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EUROPEAN STANDARD

**EN 60384-8**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2005

ICS 31.060.20

Supersedes CECC 30 600:1989

English version

**Fixed capacitors for use in electronic equipment  
Part 8: Sectional specification:  
Fixed capacitors of ceramic dielectric, Class 1  
(IEC 60384-8:2005)**

Condensateurs fixes utilisés  
dans les équipements électroniques  
Partie 8: Spécification intermédiaire:  
Condensateurs fixes à diélectrique  
en céramique de classe 1  
(CEI 60384-8:2005)

Festkondensatoren zur Verwendung  
in Geräten der Elektronik  
Teil 8: Rahmenspezifikation –  
Keramik-Festkondensatoren, Klasse 1  
(IEC 60384-8:2005)

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This European Standard was approved by CENELEC on 2005-05-01. 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.

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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

**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 40/1528/FDIS, future edition 3 of IEC 60384-8, 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 60384-8 on 2005-05-01.

This European Standard supersedes CECC 30 600:1989.

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) 2006-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2008-05-01

Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 60384-8:2005 was approved by CENELEC as a European Standard without any modification.

[SIST EN 60384-8-1:2005  
https://standards.iteh.ai/catalog/standards/sist/b778882d-1e10-44f3-b452-a32ce89f3f58/sist-en-60384-8-1-2005](https://standards.iteh.ai/catalog/standards/sist/b778882d-1e10-44f3-b452-a32ce89f3f58/sist-en-60384-8-1-2005)

## 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 Where 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	1963	Preferred number series for resistors and capacitors	-	-
A1	1967		-	-
A2	1977		-	-
IEC 60068-1	- <sup>1)</sup>	Environmental testing Part 1: General and guidance	EN 60068-1	1994 <sup>2)</sup>
IEC 60384-1 (mod)	1999	Fixed capacitors for use in electronic equipment Part 1: Generic specification	EN 60384-1 + corr. October	2001 2001
IEC 60384-14	- <sup>1)</sup>	Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	-	-
IEC 60410	1973	Sampling plans and procedures for inspection by attributes	-	-
ISO 3	1973	Preferred numbers - Series of preferred numbers	-	-

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1) Undated reference.

2) Valid edition at date of issue.

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# INTERNATIONAL STANDARD

# IEC 60384-8-1

QC 300601

Second edition  
2005-05

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## Fixed capacitors for use in electronic equipment –

### Part 8-1:

### Blank detail specification:

### Fixed capacitors of ceramic dielectric,

### Class 1 – Assessment level E2

(standards.iteh.ai)

[SIST EN 60384-8-1:2005](https://standards.iteh.ai/catalog/standards/sist/b778882d-1e10-44f3-b452-a32ce89f3f58/sist-en-60384-8-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/b778882d-1e10-44f3-b452-a32ce89f3f58/sist-en-60384-8-1-2005>

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

Part 8-1: Blank detail specification:
Fixed capacitors of ceramic dielectric, Class 1 –
Assessment level EZ

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60384-8-1 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 1988, amendment 1 (1993) and amendment 2 (2000). This second 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:

Table with 2 columns: FDIS, Report on voting. Row 1: 40/1529/FDIS, 40/1549/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.

IEC 60384 consists of the following parts, under the general title *Fixed capacitors for use in electronic equipment*:

- Part 1: Generic specification
- Part 2: Sectional specification: Fixed metallized polyethylene-terephthalate film dielectric d.c. capacitors
- Part 3: Sectional specification: Fixed tantalum chip capacitors
- Part 4: Sectional specification: Aluminium electrolytic capacitors with solid and non-solid electrolyte
- Part 5: Sectional specification: Fixed mica dielectric d.c. capacitors with a rated voltage not exceeding 3000 V – Selection of methods of test and general requirements
- Part 6: Sectional specification: Fixed metallized polycarbonate film dielectric d.c. capacitors
- Part 7: Sectional specification: Fixed polystyrene film dielectric metal foil d.c. capacitors
- Part 8: Sectional specification: Fixed capacitors of ceramic dielectric, Class 1
- Part 9: Sectional specification: Fixed capacitors of ceramic dielectric, Class 2
- Part 11: Sectional specification: Fixed polyethylene-terephthalate film dielectric metal foil d.c. capacitors
- Part 12: Sectional specification: Fixed polycarbonate film dielectric metal foil d.c. capacitors
- Part 13: Sectional specification: Fixed polypropylene film dielectric metal foil d.c. capacitors
- Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains
- Part 15: Sectional specification: Fixed tantalum capacitors with non-solid or solid electrolyte
- Part 16: Sectional specification: Fixed metallized polypropylene film dielectric d.c. capacitors
- Part 17: Sectional specification: Fixed metallized polypropylene film dielectric a.c. and pulse capacitors
- Part 18: Sectional specification: Fixed aluminium electrolytic chip capacitors with solid and non-solid electrolyte
- Part 19: Sectional specification: Fixed metallized polyethylene-terephthalate film dielectric chip d.c. capacitors
- Part 20: Sectional specification: Fixed metallized polyphenylene sulfide film dielectric chip d.c. capacitors
- Part 21: Sectional specification: Fixed surface mount multilayer capacitors of ceramic dielectric, Class 1
- Part 22: Sectional specification: Fixed surface mount multilayer capacitors of ceramic dielectric, Class 2
- Part 23: Sectional specification: Fixed surface mount metallized polyethylene naphthalate film dielectric d.c. capacitors<sup>1</sup>
- Part 24: Sectional specification – Surface mount fixed tantalum electrolytic capacitors with conductive polymer solid electrolyte<sup>①</sup>
- Part 25: Sectional specification – Surface mount fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte<sup>①</sup>

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<sup>1</sup> To be published.