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**Nespremenljivi kondenzatorji za uporabo v elektronski opremi – 16. del:  
Področna specifikacija: nespremenljivi kondenzatorji z dielektrikom iz  
metalizirane polipropilenske folije za enosmerne napetosti (IEC 60384-  
16:2005)**

Fixed capacitors for use in electronic equipment – Part 16: Sectional specification:  
Fixed metallized polypropylene film dielectric d.c. capacitors (IEC 60384-16:2005)

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EUROPEAN STANDARD

**EN 60384-16**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2005

ICS 31.060.30

Supersedes EN 131200:2002

English version

**Fixed capacitors for use in electronic equipment**  
**Part 16: Sectional specification:**  
**Fixed metallized polypropylene film dielectric d.c. capacitors**  
(IEC 60384-16:2005)

Condensateurs fixes utilisés  
dans les équipements électroniques  
Partie 16: Spécification intermédiaire:  
Condensateurs fixes pour courant continu  
à diélectrique en film de polypropylène  
métallisé  
(CEI 60384-16:2005)

Festkondensatoren zur Verwendung in  
Geräten der Elektronik  
Teil 16: Rahmenspezifikation:  
Festkondensatoren mit metallisierter  
Polypropylen-Folie als Dielektrikum für  
Gleichspannung  
(IEC 60384-16:2005)

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This European Standard was approved by CENELEC on 2005-11-01. 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 40/1595/FDIS, future edition 2 of IEC 60384-16, 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 60384-16 on 2005-11-01.

This European Standard supersedes EN 131200:2002.

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) 2006-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2008-11-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60384-16:2005 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 60065	NOTE	Harmonized as EN 60065:2002 (modified).
IEC 60384-14	NOTE	Harmonized as EN 60384-14:2005 (not modified).

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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 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)	- <sup>1)</sup>	Fixed capacitors for use in electronic equipment Part 1: Generic specification	EN 60384-1 + corr. October	2001 <sup>2)</sup> 2001
IEC 60384-16-1	- <sup>1)</sup>	Part 16-1: Blank detail specification - Fixed metallized polypropylene film dielectric d.c. capacitors - Assessment levels E and EZ	EN 60384-16-1	2005 <sup>2)</sup>
IEC 60410	- <sup>1)</sup>	Sampling plans and procedures for inspection by attributes	-	-
ISO 3	- <sup>1)</sup>	Preferred numbers - Series of preferred numbers	-	-

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

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# INTERNATIONAL STANDARD

# IEC 60384-16

QC 301200

Second edition  
2005-11

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## Fixed capacitors for use in electronic equipment –

### Part 16:

### Sectional specification:

### Fixed metallized polypropylene film dielectric d.c. capacitors

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Международная Электротехническая Комиссия

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## CONTENTS

FOREWORD.....	4
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
1.5 Terms and definitions.....	9
1.6 Marking.....	10
2 Preferred ratings and characteristics.....	10
2.1 Preferred characteristics.....	10
2.2 Preferred values of ratings.....	10
3 Quality assessment procedures.....	11
3.1 Primary stage of manufacture.....	11
3.2 Structurally similar components.....	11
3.3 Certified records of released lots.....	11
3.4 Qualification approval.....	12
3.5 Quality conformance inspection.....	18
4 Test and measurement procedures.....	19
4.1 Visual examination and check of dimensions.....	19
4.2 Electrical tests.....	20
4.3 Robustness of terminations.....	23
4.4 Resistance to soldering heat.....	23
4.5 Solderability.....	23
4.6 Rapid change of temperature.....	23
4.7 Vibration.....	23
4.8 Bump.....	24
4.9 Shock.....	24
4.10 Climatic sequence.....	25
4.11 Damp heat, steady state.....	26
4.12 Endurance.....	26
4.13 Charge and discharge.....	26
4.14 Component solvent resistance.....	28
4.15 Solvent resistance of the marking.....	28
Bibliography.....	29
Table 1 – Preferred values.....	9
Table 2 – Preferred combinations.....	11
Table 3 – Sampling plan together with numbers of permissible defectives for qualification approval tests.....	13
Table 4 – Test schedule for qualification approval.....	14
Table 5 – Lot-by-lot inspection.....	19
Table 6 – Periodic inspection.....	19



Table 7 – Voltages to be applied.....	20
Table 8 – Measurement requirements.....	21
Table 9 – Insulation resistance requirements.....	21
Table 10 – Correction factors.....	22
Table 11 – Characteristics at lower category temperature.....	22
Table 12 – Characteristics at upper category temperature.....	22
Table 13 – Preferred severities.....	24
Table 14 – Test conditions.....	26
Table 15 – Lead spacing.....	27

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SIST EN 60384-16:2006

<https://standards.iteh.ai/catalog/standards/sist/7618505d-d40f-4ace-be5f-11c6fb997295/sist-en-60384-16-2006>

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –**

**Part 16: Sectional specification: Fixed metallized polypropylene film dielectric d.c. capacitors**

FOREWORD

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International Standard IEC 60384-16 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 1982, amendment 1 (1987) and amendment 2 (1992) and constitutes minor revisions related to tables, figures and references.

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

FDIS	Report on voting
40/1595/FDIS	40/1628/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 (new) 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
- Part 24: Sectional specification – Surface mount fixed tantalum electrolytic capacitors with conductive polymer solid electrolyte (under consideration)
- Part 25: Sectional specification – Surface mount fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte (under consideration)

All sectional specifications mentioned above do have one or more blank detail specifications being a supplementary document, containing requirements for style, layout and minimum content of detail specifications.

The QC 301 200 number that appears on the front cover of this publication is the specification number in the IECQ Quality Assessment System for Electronic Components.

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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