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Standards

Irish Standard
I.S. EN IEC 60384-16:2019

Fixed capacitors for use in electronic equipment - Part 16: Sectional specification - Fixed metallized polypropylene film dielectric DC capacitors

I.S. EN IEC 60384-16:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN IEC 60384-16:2019 is the adopted Irish version of the European Document EN IEC 60384-16:2019, Fixed capacitors for use in electronic equipment - Part 16: Sectional specification - Fixed metallized polypropylene film dielectric DC capacitors

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EUROPEAN STANDARD

EN IEC 60384-16

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2019

ICS 31.060.30

Supersedes EN 60384-16:2005 and all of its
amendments and corrigenda (if any)

English Version

**Fixed capacitors for use in electronic equipment - Part 16:
Sectional specification - Fixed metallized polypropylene film
dielectric DC capacitors
(IEC 60384-16:2019)**

Condensateurs fixes utilisés dans les équipements
électroniques - Partie 16: Spécification intermédiaire -
Condensateurs fixes our courant continu à diélectrique en
film de polypropylène métallisé
(IEC 60384-16:2019)

Festkondensatoren zur Verwendung in Geräten der
Elektronik - Teil 16: Rahmenspezifikation:
Festkondensatoren mit metallisierter Polypropylen-Folie als
Dielektrikum für Gleichspannung
(IEC 60384-16:2019)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60384-16:2019 (E)

European foreword

The text of document 40/2686/FDIS, future edition 3 of IEC 60384-16, 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 IEC 60384-16:2019.

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) 2020-07-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-10-21

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IEC 60065	NOTE	Harmonized as EN 60065
IEC 60068-2-20:2008	NOTE	Harmonized as EN 60068-2-20:2008 (not modified)
IEC 60384-14	NOTE	Harmonized as EN 60384-14
IEC 60384-17	NOTE	Harmonized as EN IEC 60384-17

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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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 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 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
IEC 60417	-	Graphical symbols for use on equipment. Index, survey and compilation of the single sheets.	-	-
ISO 3	-	Preferred numbers - Series of preferred numbers	-	-

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IEC 60384-16

Edition 3.0 2019-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fixed capacitors for use in electronic equipment –
Part 16: Sectional specification – Fixed metallized polypropylene film dielectric
DC capacitors**

**Condensateurs fixes utilisés dans les équipements électroniques –
Partie 16: Spécification intermédiaire – Condensateurs fixes pour courant
continu à diélectrique en film de polypropylène métallisé**





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IEC 60384-16

Edition 3.0 2019-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fixed capacitors for use in electronic equipment –
Part 16: Sectional specification – Fixed metallized polypropylene film dielectric
DC capacitors**

**Condensateurs fixes utilisés dans les équipements électroniques –
Partie 16: Spécification intermédiaire – Condensateurs fixes pour courant
continu à diélectrique en film de polypropylène métallisé**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –**Part 16: Sectional specification –
Fixed metallized polypropylene film dielectric DC 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 third edition cancels and replaces the second edition published in 2005. This edition 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: 2016 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 International Standard is based on the following documents:

FDIS	Report on voting
40/2686/FDIS	40/2691/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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 document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

Part 16: Sectional specification – Fixed metallized polypropylene film dielectric DC capacitors

1 General

1.1 Scope

This part of IEC 60384 applies to fixed capacitors with metallized electrodes and polypropylene dielectric for use in electronic equipment.

These capacitors can have "self-healing properties" depending on conditions of use. They are mainly intended for use with direct voltage.

The maximum power to be applied is 500 var at 50 Hz and the maximum peak voltage is 2 500 V.

The following two grades are covered;

- a) Grade 1: for long-life application;
- b) Grade 2: for general application.

Capacitors for alternating voltage and pulse applications are not included, but are covered by IEC 60384-17.

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

Capacitors for electrical shock hazard protection (covered by IEC 60065) and fluorescent lamp and motor capacitors are also excluded.

1.2 Object

The object of this document 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 are of equal or higher performance level, because lower performance levels are not permitted.

1.3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60068-1:2013, *Environmental testing – Part 1: General and guidance*

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

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