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Standards

Irish Standard
I.S. EN IEC 60384-13:2020

Fixed capacitors for use in electronic equipment - Part 13: Sectional specification - Fixed polypropylene film dielectric metal foil DC capacitors

I.S. EN IEC 60384-13:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN IEC 60384-13:2020 is the adopted Irish version of the European Document EN IEC 60384-13:2020, Fixed capacitors for use in electronic equipment - Part 13: Sectional specification - Fixed polypropylene film dielectric metal foil DC capacitors

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EUROPEAN STANDARD

EN IEC 60384-13

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2020

ICS 31.060.30

Supersedes EN 60384-13:2012 and all of its amendments and corrigenda (if any)

English Version

**Fixed capacitors for use in electronic equipment - Part 13:
Sectional specification - Fixed polypropylene film dielectric metal
foil DC capacitors
(IEC 60384-13:2020)**

Condensateurs fixes utilisés dans les équipements électroniques - Partie 13: Spécification intermédiaire - Condensateurs fixes pour courant continu à diélectrique en film de polypropylène à armatures en feuilles métalliques (IEC 60384-13:2020)

Festkondensatoren zur Verwendung in Geräten der Elektronik - Teil 13: Rahmenspezifikation - Festkondensatoren mit einem Dielektrikum aus Polypropylen und Belägen aus Metallfolien für Gleichspannung (IEC 60384-13:2020)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 60384-13:2020 (E)

European foreword

The text of document 40/2751/FDIS, future edition 5 of IEC 60384-13, 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 60384-13:2020.

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) 2021-09-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-12-16

This document supersedes EN 60384-13:2012 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 60384-13:2020 was approved by CENELEC as a European Standard without any modification.

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

IEC 60384-14 NOTE Harmonized as EN 60384-14

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where 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. Index, survey and compilation of the single sheets.	-	-
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	-	-

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IEC 60384-13

Edition 5.0 2020-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fixed capacitors for use in electronic equipment –
Part 13: Sectional specification – Fixed polypropylene film dielectric metal foil
DC capacitors**

**Condensateurs fixes utilisés dans les équipements électroniques –
Partie 13: Spécification intermédiaire – Condensateurs fixes pour courant
continu à diélectrique en film de polypropylène à armatures en feuilles
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IEC 60384-13

Edition 5.0 2020-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fixed capacitors for use in electronic equipment –
Part 13: Sectional specification – Fixed polypropylene film dielectric metal foil
DC capacitors**

**Condensateurs fixes utilisés dans les équipements électroniques –
Partie 13: Spécification intermédiaire – Condensateurs fixes pour courant
continu à diélectrique en film de polypropylène à armatures en feuilles
métalliques**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

Part 13: Sectional specification – Fixed polypropylene film dielectric metal foil DC capacitors

FOREWORD

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International Standard IEC 60384-13 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This fifth edition cancels and replaces the fourth edition published in 2011. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) revision of all parts of the document based on the ISO/IEC Directives, Part 2:2018, and harmonization with other similar kinds of documents;
- b) the document structure has been organized to follow new sectional specification structure decided in TC 40;
- c) revised tables and Clause 5 so as to prevent duplications and contradictions.

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

FDIS	Report on voting
40/2751/FDIS	40/2759/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 13: Sectional specification – Fixed polypropylene film dielectric metal foil DC capacitors

1 Scope

This part of IEC 60384 specifies preferred ratings and characteristics, selects from IEC 60384-1:2016 the appropriate quality assessment procedures, tests and measuring methods, and gives general performance requirements for this type of capacitor. Test severities and requirements specified in detail specifications referring to this sectional specification are of an equal or higher performance level. Lower performance levels are not permitted.

This part of IEC 60384 applies to fixed direct current capacitors, using as dielectric a polypropylene film with electrodes of thin metal foils. The capacitors covered by this document are intended for use in electronic equipment.

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

2 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 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*
(available at <http://www.graphicalsymbols.info/equipment>)

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

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

3 Terms and definitions

For the purposes of this document, the terms and definitions of IEC 60384-1:2016, and the following apply.

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