



**NSAI**  
Standards

Irish Standard  
I.S. EN 60384-13:2012

Fixed capacitors for use in electronic equipment -- Part 13: Sectional specification - Fixed polypropylene film dielectric metal foil d.c. capacitors (IEC 60384-13:2011 (EQV))

## I.S. EN 60384-13:2012

*Incorporating amendments/corrigenda issued since publication:*

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60384-13**

March 2012

ICS 31.060.30

Supersedes EN 60384-13:2006 + corr. Nov.2006

English version

**Fixed capacitors for use in electronic equipment -  
Part 13: Sectional specification -  
Fixed polypropylene film dielectric metal foil d.c. capacitors  
(IEC 60384-13:2011)**

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  
(CEI 60384-13:2011)

Festkondensatoren zur Verwendung in  
Geräten der Elektronik -  
Teil 13: Rahmenspezifikation -  
Festkondensatoren mit einem  
Dielektrikum aus Polypropylen und  
Belägen aus Metallfolien für  
Gleichspannung  
(IEC 60384-13:2011)

This European Standard was approved by CENELEC on 2012-01-13. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

**CENELEC**

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

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

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**Foreword**

The text of document 40/2130/FDIS, future edition 4 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 60384-13:2012.

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) 2012-10-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-01-13

This document supersedes EN 60384-13:2006 + corr. nov. 2006.

EN 60384-13:2012 includes the following significant technical changes with respect to EN 60384-13:2006:

- Table 3, Sampling plan together with numbers of permissible non-conformance for qualification approval test, has been adjusted.
- Table 5, Lot-by-lot inspection, has been changed, highlighting assessment level EZ only.
- Table 6, Periodic inspection, has been changed, highlighting assessment level EZ only.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

**Endorsement notice**

The text of the International Standard IEC 60384-13:2011 was approved by CENELEC as a European Standard without any modification.

## 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 When 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 + A1 + A2	1963 1967 1977	Preferred number series for resistors and capacitors	-	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60384-1 + corr. November	2008 2008	Fixed capacitors for use in electronic equipment - Part 1: Generic specification	EN 60384-1	2009
IEC 60384-13-1	-	Fixed capacitors for use in electronic equipment - Part 13-1: Blank detail specification - Fixed polypropylene film dielectric metal foil d.c. capacitors - Assessment level E and EZ	EN 60384-13-1	-
IEC 60384-14	-	Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	EN 60384-14	-
IEC 60410	1973	Sampling plans and procedures for inspection - by attributes		-
IEC 61193-2	-	Quality assessment systems - Part 2: Selection and use of sampling plans for inspection of electronic components and packages	EN 61193-2	-
ISO 3	-	Preferred numbers - Series of preferred numbers	-	-

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

#### **Part 13: Sectional specification – Fixed polypropylene film dielectric metal foil d.c. 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 fourth edition cancels and replaces the third edition published in 2006 and contains the following significant technical changes with respect to the previous edition.

- Table 3, Sampling plan together with numbers of permissible non-conformance for qualification approval test, has been adjusted.
- Table 5, Lot-by-lot inspection, has been changed, highlighting assessment level EZ only.
- Table 6, Periodic inspection, has been changed, highlighting assessment level EZ only.

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

FDIS	Report on voting
40/2130/FDIS	40/2143/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 the 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 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

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