BS EN 60384-23:2015

BSI Standards Publication

Fixed capacitors for use in electronic equipment

Part 23: Sectional specification — Fixed surface mount metallized polyethylene naphthalate film dielectric DC capacitors

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National foreword

This British Standard is the UK implementation of EN 60384-23:2015. It is identical to IEC 60384-23:2015. It supersedes BS EN 60384-23:2005 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/40X, Capacitors and resistors for electronic equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 June 2015.

Amendments/corrigenda issued since publication

Date	Text affected

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EUROPEAN STANDARD

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EN 60384-23

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English Version

Fixed capacitors for use in electronic equipment - Part 23: Sectional specification - Fixed surface mount metallized polyethylene naphthalate film dielectric DC capacitors (IEC 60384-23:2015)

Condensateurs fixes utilisés dans les équipements électroniques - Partie 23: Spécification intermédiaire - Condensateurs fixes pour montage en surface pour courant continu à diélectrique en film de polynaphtalate d'éthylène métallisé (IEC 60384-23:2015)

Festkondensatoren zur Verwendung in Geräten der Elektronik - Teil 23: Rahmenspezifikation - Oberflächenmontierbare metallisierte Polyethylen-Naphthalat-Folienkondensatoren für Gleichspannung (IEC 60384-23:2015)

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

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European Foreword

The text of document 40/2349/FDIS, future edition 2 of IEC 60384-23, 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 60384-23:2015.

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) 2016-03-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-06-03

This document supersedes EN 60384-23:2005.

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 60384-23:2015 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 60068 (series)	NOTE	Harmonized as EN 60068 (series).
IEC 60384-14	NOTE	Harmonized as EN 60384-14.
IEC 60384-23-1	NOTE	Harmonized as EN 60384-23-1.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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.

Publication	Year	Title	EN/HD	Year
IEC 60062	-	Marking codes for resistors and capacitors	EN 60062	-
-	-		+corrigendum Jan.	-
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	2008	Fixed capacitors for use in electronic equipment -- Part 1: Generic specification	EN 60384-1	2009
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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Full document details: BS EN 60384-23:2015

CONTENTS

FOREWORD 5
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 7
1.4.1 General 7
1.4.2 Outline drawing and dimensions 8
1.4.3 Mounting 8
1.4.4 Ratings and characteristics 8
1.4.5 Marking 9
1.5 Terms and definitions 9
1.6 Marking 9
1.6.1 General 9
1.6.2 Information for marking 9
1.6.3 Marking of capacitors 9
1.6.4 Marking on packaging 10
2 Preferred ratings and characteristics 10
2.1 Preferred characteristics 10
2.1.1 Preferred climatic categories 10
2.2 Preferred values of ratings 10
2.2.1 Nominal capacitance (C_N) 10
2.2.2 Tolerance on nominal capacitance 10
2.2.3 Rated voltage (U_R) 10
2.2.4 Category voltage (U_C) 11
2.2.5 Rated temperature 11
3 Quality assessment procedures 11
3.1 Primary stage of manufacture 11
3.2 Structurally similar components 11
3.3 Certified test records of released lots 11
3.4 Qualification approval procedures 11
3.4.1 General 11
3.4.2 Qualification approval on the basis of the fixed sample size procedure 12
3.5 Quality conformance inspection 19
3.5.1 Formation of inspection lots 19
3.5.2 Test schedule 20
3.5.3 Delayed delivery 20
3.5.4 Assessment levels 20
4 Test and measurement procedures 21
4.1 Mounting 21
4.2 Visual examination and check of dimensions 21
4.2.1 General 21
4.2.2 Visual examination and check of dimensions 21
4.2.3 Requirements 21
4.3 Electrical tests 21
4.3.1 Voltage proof 21

AVA Documents
Document Sharing Hub
Full document details: BS EN 60384-23:2015

4.3.2 Capacitance 22
4.3.3 Tangent of loss angle (tan δ) 22
4.3.4 Insulation resistance 23
4.4 Shear test 24
4.5 Substrate bending test 24
4.5.1 General 24
4.5.2 Initial measurement 24
4.5.3 Final inspections and requirements 24
4.6 Resistance to soldering heat 25
4.6.1 General 25
4.6.2 Initial inspections 25
4.6.3 Test conditions 25
4.6.4 Recovery 25
4.6.5 Final inspections and requirements 25
4.7 Solderability 25
4.7.1 General 25
4.7.2 Test conditions 25
4.7.3 Final inspections and requirements 25
4.8 Rapid change of temperature 25
4.8.1 General 25
4.8.2 Initial inspections 26
4.8.3 Test conditions 26
4.8.4 Final inspections and requirements 26
4.9 Climatic sequence 26
4.9.1 General 26
4.9.2 Initial measurements 26
4.9.3 Dry heat 26
4.9.4 Damp heat, cyclic, Test Db, first cycle 26
4.9.5 Cold 26
4.9.6 Damp heat, cyclic, Test Db, remaining cycles 26
4.9.7 Recovery 26
4.9.8 Final inspections and requirements 27
4.10 Damp heat, steady state 27
4.10.1 General 27
4.10.2 Initial inspections 27
4.10.3 Test conditions 27
4.10.4 Recovery 27
4.10.5 Final inspections and requirements 27
4.11 Endurance 27
4.11.1 General 27
4.11.2 Initial inspections 27
4.11.3 Test conditions 27
4.11.4 Final inspections and requirements 28
4.12 Charge and discharge 28
4.12.1 General 28
4.12.2 Initial inspections 28
4.12.3 Test conditions 28
4.12.4 Recovery 29
4.12.5 Final inspections and requirements 29

AVA Documents
Document Sharing Hub
Full document details: BS EN 60384-23:2015

4.13 Component solvent resistance (if required) 29
4.14 Solvent resistance of marking (if required) 29
Bibliography 30

Table 1 – Percentage limit of the rated voltage at a.c. voltage frequency 11
Table 2 – Test and sampling plan for qualification approval Assessment level EZ 13
Table 3 – Test schedule for qualification approval 14
Table 4 – Lot-by-lot inspection 20
Table 5 – Periodic tests 21
Table 6 – Test voltages 22
Table 7 – Tangent of loss angle limits 23
Table 8 – Requirements regarding insulation resistance 24
Table 9 – Correction factor dependent on test temperature 24
Table 10 – Endurance test Grade 1 and Grade 2 capacitors 28
Table 11 – Endurance test Grade 3 capacitors 28

Documents
Document Sharing Hub
Full document details: BS EN 60384-23:2015

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

Part 23: Sectional specification – Fixed metallized polyethylene naphthalate film dielectric surface mount d.c. capacitors

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 60384-23 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 2005 and constitutes a technical revision.

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

a) Revised all parts of the document based on the ISO/IEC Directives, Part 2:2011 (sixth edition) and harmonization between other similar kinds of documents.
b) Revised tables and Clause 4 so as to prevent duplications and contradictions.

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

FDIS	Report on voting
40/2349/FDIS	40/2376/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.

The list of all parts of the IEC 60384 series, under the (new) general title *Fixed capacitors for use in electronic equipment*, can be found on the IEC web site.

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

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

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FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

Part 23: Sectional specification – Fixed metallized polyethylene naphthalate film dielectric surface mount d.c. capacitors

1 General

1.1 Scope

This part of IEC 60384 is applicable to fixed surface mount capacitors for direct current, with metallized electrodes and polyethylene naphthalate dielectric for use in electronic equipment. These capacitors have metallized connecting pads or soldering strips and are intended to be mounted directly onto substrates for hybrid circuits or onto printed boards. These capacitors may have "self-healing properties" depending on conditions of use. They are primarily intended for applications where the a.c. component is small with respect to the rated voltage.

Capacitors for radio interference suppression are not included, they are covered by IEC 60384-14.

1.2 Object

The object of this standard is to prescribe preferred ratings and characteristics and to select from IEC 60384-1, 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 shall be of equal or higher performance level, lower performance levels are not permitted.

1.3 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 60384-1:2008, *Fixed capacitors for use in electronic equipment – Part 1: Generic specification*

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*

1.4 Information to be given in a detail specification

1.4.1 General

Detail specifications shall be derived from the relevant blank detail specification.

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