

INTERNATIONAL STANDARD

**Fixed capacitors for use in electronic equipment –
Part 2: Sectional specification – Fixed metallized polyethylene-terephthalate film
dielectric DC capacitors:**





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INTERNATIONAL STANDARD

**Fixed capacitors for use in electronic equipment –
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dielectric DC capacitors:**

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CONTENTS

FOREWORD	5
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Preferred ratings and characteristics	8
4.1 Preferred characteristics	8
4.2 Preferred values of ratings	8
4.2.1 Nominal capacitance (C_N)	8
4.2.2 Tolerance on nominal capacitance	8
4.2.3 Rated voltage (U_R)	9
4.2.4 Category voltage (U_C)	9
4.2.5 Rated temperature	9
5 Test and measurement procedures, and performance requirements	9
5.1 Visual examination and check of dimensions	9
5.2 Electrical tests	9
5.2.1 Voltage proof	9
5.2.2 Capacitance	10
5.2.3 Tangent of loss angle ($\tan \delta$)	10
5.2.4 Insulation resistance	11
5.3 Robustness of terminations	12
5.3.1 General	12
5.3.2 Initial inspections	12
5.3.3 Test method	13
5.3.4 Final inspections and requirements	13
5.4 Resistance to soldering heat	13
5.4.1 General	13
5.4.2 Test conditions	13
5.4.3 Final inspections and requirements	13
5.5 Solderability	13
5.5.1 General	13
5.5.2 Test conditions	13
5.5.3 Final requirements	14
5.6 Rapid change of the temperature	14
5.6.1 General	14
5.6.2 Initial inspections	14
5.6.3 Test conditions	14
5.6.4 Final inspections	14
5.7 Vibration	14
5.7.1 General	14
5.7.2 Test conditions	14
5.7.3 Final inspections and requirements	14
5.8 Bump (repetitive shock)	14
5.8.1 General	14
5.8.2 Initial inspections	14
5.8.3 Test conditions	15

5.8.4	Final inspections and requirements.....	15
5.9	Shock	15
5.9.1	General	15
5.9.2	Initial inspections.....	15
5.9.3	Test conditions	15
5.9.4	Final inspections and requirements.....	15
5.10	Climatic sequence.....	16
5.10.1	General	16
5.10.2	Initial inspections.....	16
5.10.3	Dry heat	16
5.10.4	Damp heat, cyclic, Test Db, first cycle	16
5.10.5	Cold.....	16
5.10.6	Low air pressure	16
5.10.7	Damp heat, cyclic, Test Db, remaining cycles	16
5.11	Damp heat, steady state	17
5.11.1	General	17
5.11.2	Initial inspections.....	17
5.11.3	Test conditions	17
5.11.4	Final inspections and requirements.....	17
5.12	Endurance	17
5.12.1	General	17
5.12.2	Initial inspections.....	17
5.12.3	Test conditions	17
5.12.4	Final inspections and requirements.....	17
5.13	Charge and discharge.....	18
5.13.1	General	18
5.13.2	Initial inspections.....	18
5.13.3	Test conditions	18
5.13.4	Final inspections and requirements.....	19
5.14	Component solvent resistance	19
5.15	Solvent resistance of the marking	19
6	Marking	19
6.1	General.....	19
6.2	Information for marking	19
6.3	Marking of capacitors.....	19
6.4	Marking of packaging.....	19
6.5	Additional marking	19
7	Information to be given in a detail specification.....	20
7.1	General.....	20
7.2	Outline drawing and dimensions	20
7.3	Mounting.....	20
7.4	Rating and characteristics.....	20
7.4.1	General	20
7.4.2	Particular characteristics	20
7.4.3	Soldering.....	20
7.5	Marking.....	21
8	Quality assessment procedures	21
8.1	Primary stage of manufacture	21
8.2	Structurally similar components	21

8.3	Certified records of released lots	21
8.4	Qualification approval procedures	21
8.4.1	General	21
8.4.2	Qualification approval on the basis of the fixed sample size procedures	21
8.5	Quality conformance inspection	28
8.5.1	Formation of inspection lots	28
8.5.2	Test schedule	29
8.5.3	Delayed delivery	29
8.5.4	Assessment levels	29
Annex X (informative) Cross-references to the previous edition of this document.....		31
Bibliography.....		32
Table 1	– Test points and voltages	10
Table 2	– Tangent of loss angle requirements.....	11
Table 3	– Insulation resistance requirements	12
Table 4	– Correction factors.....	12
Table 5	– Preferred severities	15
Table 6	– Test conditions	17
Table 7	– Lead spacing and dU/dt	18
Table 8	– Sampling plan together with numbers of permissible non-conformance for qualification approval test	23
Table 9	– Test schedule for qualification approval (<i>1 of 5</i>)	24
Table 10	– Lot-by-lot inspection	29
Table 11	– Periodic inspection	30
Table X.1	– Cross-references	31

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –**Part 2: Sectional specification – Fixed metallized
polyethylene-terephthalate film dielectric DC capacitors**

FOREWORD

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International Standard IEC 60384-2 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 the new sectional specification structure decided by TC 40;
- c) revision of tables and Clause 5 so as to prevent duplications and contradictions.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
40/2821/FDIS	40/2830/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.

A list of all parts in the IEC 60384 series, published 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 2: Sectional specification – Fixed metallized polyethylene-terephthalate film dielectric DC capacitors

1 Scope

This part of IEC 60384 applies to fixed capacitors for direct current, with metallized electrodes and polyethylene-terephthalate dielectric for use in electronic equipment.

These capacitors have a possibility of "self-healing properties" depending on conditions of use. They are primarily intended for applications where the AC component is small with respect to the rated voltage. Two performance grades of capacitors are covered: grade 1 for long-life application and grade 2 for general application.

Capacitors for electromagnetic interference suppression and surface mount fixed metallized polyethylene-terephthalate film dielectric DC capacitors are not included, but are covered by IEC 60384-14 and IEC 60384-19, respectively.

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

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 60063:2015, *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 61193-2:2007, *Quality assessment systems – Part 2: Selection and use of sampling plans for inspection of electronic components and packages*

ISO 3:1973, *Preferred numbers – Series of preferred numbers*

3 Terms and definitions

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