

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fixed capacitors for use in electronic equipment  
Part 24: Sectional specification – Fixed tantalum electrolytic surface mount  
capacitors with conductive polymer solid electrolyte**

**Condensateurs fixes utilisés dans les équipements électroniques –  
Partie 24: Spécification intermédiaire – Condensateurs fixes électrolytiques au  
tantale pour montage en surface à électrolyte solide en polymère conducteur**



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COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
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## 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 on capacitors.....	9
1.6.4 Marking on packaging.....	9
2 Preferred ratings and characteristics.....	9
2.1 Preferred characteristics.....	9
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 ( $U_C$ ).....	10
2.2.5 Surge voltage ( $U_{RS}$ or $U_{CS}$ ).....	10
2.2.6 Rated temperature.....	10
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.....	11
3.4.3 Tests.....	12
3.5 Quality conformance inspections.....	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 Preliminary drying.....	21
4.2 Measuring conditions.....	21
4.3 Mounting.....	21
4.4 Visual examination and check of dimensions.....	21
4.4.1 General.....	21
4.4.2 Visual examination and check of dimensions.....	21

4.4.3	Requirements .....	21
4.5	Electrical tests .....	22
4.5.1	Leakage current.....	22
4.5.2	Capacitance .....	22
4.5.3	Tangent of loss angle ( $\tan \delta$ ) .....	22
4.5.4	Equivalent series resistance (if required) .....	23
4.6	Resistance to soldering heat.....	23
4.6.1	General .....	23
4.6.2	Initial inspections.....	23
4.6.3	Test conditions .....	23
4.6.4	Recovery .....	23
4.6.5	Final inspections and requirements.....	23
4.7	Solderability.....	23
4.7.1	General .....	23
4.7.2	Final inspections and requirements.....	23
4.8	Shear test.....	23
4.9	Substrate bending test (if required) .....	24
4.9.1	General .....	24
4.9.2	Initial inspections.....	24
4.9.3	Test conditions .....	24
4.9.4	Final inspections and requirements.....	24
4.10	Rapid change of temperature .....	24
4.10.1	General .....	24
4.10.2	Initial inspections.....	24
4.10.3	Test conditions .....	24
4.10.4	Recovery .....	24
4.10.5	Final inspections and requirements.....	24
4.11	Climatic sequence.....	24
4.11.1	General .....	24
4.11.2	Initial inspections.....	24
4.11.3	Dry heat .....	25
4.11.4	Damp heat, cyclic, test Db, first cycle .....	25
4.11.5	Cold.....	25
4.11.6	Damp heat, cyclic, test Db, remaining cycles .....	25
4.11.7	Recovery .....	25
4.11.8	Final inspections and requirements.....	25
4.12	Damp heat, steady state .....	25
4.12.1	General .....	25
4.12.2	Initial inspections.....	25
4.12.3	Test conditions .....	25
4.12.4	Recovery .....	25
4.12.5	Final inspections and requirements.....	25
4.13	Characteristics at high and low temperature.....	26
4.13.1	General .....	26
4.13.2	Initial inspections and requirements.....	26
4.14	Surge voltage .....	26
4.14.1	General .....	26
4.14.2	Initial inspections.....	26
4.14.3	Test conditions .....	26

4.14.4	Recovery .....	26
4.14.5	Final inspections and requirements.....	26
4.15	Endurance .....	26
4.15.1	General .....	26
4.15.2	Initial inspections.....	27
4.15.3	Test conditions .....	27
4.15.4	Recovery .....	27
4.15.5	Final inspections and requirements.....	27
4.16	Component solvent resistance (if required) .....	27
4.17	Solvent resistance of marking (if required) .....	27
4.18	High surge current (if required) .....	27
4.19	Storage at high temperature.....	27
4.19.1	General .....	27
4.19.2	Initial inspections.....	27
4.19.3	Test conditions .....	27
4.19.4	Recovery .....	27
4.19.5	Final inspections and requirements.....	28
Bibliography.....		29
Table 1 – Category and surge voltages.....		11
Table 2 – Category and surge voltages.....		11
Table 3 – Sampling plan for qualification approval, assessment level EZ .....		13
Table 4 – Test schedule for qualification approval (r of c) .....		14
Table 5 – Lot-by-lot inspection .....		20
Table 6 – Periodic inspection .....		21

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –****Part 24: Sectional specification – Fixed tantalum electrolytic surface mount capacitors with conductive polymer solid electrolyte**

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International Standard IEC 60384-24 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 2006 and 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 2:2011 (sixth edition) 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 standard is based on the following documents:

FDIS	Report on voting
40/2382/FDIS	40/2395/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 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 website 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.

## FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

### Part 24: Sectional specification – Fixed tantalum electrolytic surface mount capacitors with conductive polymer solid electrolyte

#### 1 General

##### 1.1 Scope

This part of IEC 60384 applies to fixed tantalum electrolytic surface mount capacitors with conductive polymer solid electrolyte primarily intended for d.c. applications for use in electronic equipment.

Fixed tantalum electrolytic surface mount capacitors with solid (MnO<sub>2</sub>) electrolyte are not included but are covered by IEC 60384-3.

These capacitors are primarily intended for use in electronic equipment to be mounted directly on substrates for hybrid circuits or to printed boards.

Capacitors for special-purpose applications may need additional requirements.

##### 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, because 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 60063, *Preferred number series for resistors and capacitors*

IEC 60068-1:2003, *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 blank detail specification.