

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fixed capacitors for use in electronic equipment –
Part 18: Sectional specification – Fixed aluminium electrolytic surface mount
capacitors with solid (MnO₂) and non-solid electrolyte**

**Condensateurs fixes utilisés dans les équipements électroniques –
Partie 18: Spécification intermédiaire – Condensateurs fixes électrolytiques à
l'aluminium pour montage en surface à électrolyte solide (MnO₂) et non solide**



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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.....	8
1.4.1 General	8
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	10
2 Preferred ratings and characteristics.....	10
2.1 Preferred characteristics	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)	10
2.2.5 Surge voltage	11
2.2.6 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	11
3.4.3 Tests	12
3.5 Quality conformance inspection.....	22
3.5.1 Formation of inspection lots	22
3.5.2 Test schedule	22
3.5.3 Delayed delivery	22
3.5.4 Assessment levels	22
4 Test and measurement procedures	23
4.1 Drying.....	23
4.2 Measuring conditions	24
4.3 Mounting.....	24
4.3.1 General	24
4.3.2 Initial inspections	24
4.3.3 Test conditions	24

4.3.4	Final inspections	24
4.4	Visual examination and check of dimensions	24
4.4.1	General	24
4.4.2	Visual examination and check of dimensions	24
4.4.3	Requirements	24
4.5	Electrical tests	24
4.5.1	Leakage current.....	24
4.5.2	Capacitance	25
4.5.3	Tangent of loss angle ($\tan \delta$) or equivalent series resistance (ESR).....	25
4.5.4	Impedance (if required).....	26
4.6	Resistance to soldering heat	26
4.6.1	General	26
4.6.2	Test conditions	26
4.6.3	Recovery	26
4.6.4	Final inspections and requirements	26
4.7	Solderability.....	26
4.7.1	General	26
4.7.2	Test conditions	27
4.7.3	Final inspections and requirements	27
4.8	Shear test.....	27
4.8.1	General	27
4.8.2	Final inspections and requirements	27
4.9	Substrate bending test	27
4.9.1	General	27
4.9.2	Final inspections and requirements	27
4.10	Rapid change of temperature	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	Climatic sequence.....	28
4.11.1	General	28
4.11.2	Initial inspections	28
4.11.3	Dry heat.....	28
4.11.4	Damp heat, cyclic, Test Db, first cycle.....	28
4.11.5	Cold	28
4.11.6	Damp heat, cyclic, Test Db, remaining cycles	28
4.11.7	Recovery	28
4.11.8	Final inspections and requirements	28
4.12	Damp heat, steady state	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
4.13	Characteristics at high and low temperature	29
4.13.1	General	29

4.13.2	Inspections and requirements	29
4.14	Surge voltage	29
4.14.1	General	29
4.14.2	Initial inspections	29
4.14.3	Test conditions	29
4.14.4	Recovery	29
4.14.5	Final inspections and requirements	30
4.15	Endurance	30
4.15.1	General	30
4.15.2	Initial inspections	30
4.15.3	Test conditions	30
4.15.4	Recovery	30
4.15.5	Final inspections and requirements	30
4.16	Reverse voltage (if required)	30
4.16.1	Initial inspections	30
4.16.2	Test conditions	30
4.16.3	Recovery	31
4.16.4	Final inspections and requirements	31
4.17	Storage at high temperature	31
4.17.1	General	31
4.17.2	Initial inspections	31
4.17.3	Test conditions	31
4.17.4	Recovery	31
4.17.5	Final inspections and requirements	31
4.18	Storage at low temperature (if required)	31
4.18.1	General	31
4.18.2	Initial inspections	31
4.18.3	Test conditions	31
4.18.4	Recovery	31
4.18.5	Final inspections and requirements	31
4.19	Charge and discharge (if required)	32
4.19.1	General	32
4.19.2	Initial inspections	32
4.19.3	Test conditions	32
4.19.4	Final inspections and requirements	32
4.20	Component solvent resistance (if required).....	32
4.21	Solvent resistance of the marking (if required).....	32
4.22	High surge current (if required)	32
4.22.1	General	32
4.22.2	Final inspections and requirements	33
Table 1 – Surge voltages		11
Table 2 – Sampling plan for qualification approval, assessment level EZ		13
Table 3 – Test schedule for qualification approval (1 of 8).....		14
Table 4 – Lot-by-lot inspection		23
Table 5 – Periodic inspection		23

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –**Part 18: Sectional specification –
Fixed aluminium electrolytic surface mount capacitors
with solid (MnO₂) and non-solid electrolyte**

FOREWORD

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International Standard IEC 60384-18 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This third edition cancels and replaces the second edition published in 2007 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
40/2460/FDIS	40/2466/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 18: Sectional specification – Fixed aluminium electrolytic surface mount capacitors with solid (MnO₂) and non-solid electrolyte

1 General

1.1 Scope

This part of IEC 60384 applies to fixed aluminium electrolytic surface mount capacitors with solid (MnO₂) and non-solid electrolyte primarily intended for d.c. applications for use in electronic equipment.

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 60384-1:2016 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 should 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 60068-1:2013, *Environmental testing – Part 1: General and guidance*

IEC 60068-2-58:2015, *Environmental testing – Part 2-58: Tests – Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)*

IEC 60384-1:2016, *Fixed capacitors for use in electronic equipment – Part 1: Generic specification*

IEC 60417, *Graphical symbols for use on equipment*

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

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