
Fiksni kondenzatorji za elektronsko opremo - 3-1. del: Okvirna podrobna specifikacija: Fiksni tantalovi elektrolitski kondenzatorji s trdnim elektrolitom iz manganovega dioksida za površinsko montažo - Ocenjevalni nivo EZ (IEC 60384-3-1:2006)

Fixed capacitors for use in electronic equipment - Part 3-1: Blank detail specification: Surface mount fixed tantalum electrolytic capacitors with manganese dioxide solid electrolyte - Assessment level EZ (IEC 60384-3-1:2006)

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Festkondensatoren zur Verwendung in Geräten der Elektronik - Teil 3-1: Vordruck für Bauartspezifikation: Oberflächenmontierbare Tantal-Kondensatoren mit festem Mangandioxid-Elektrolyt - Qualitätsbewertungsstufe EZ (IEC 60384-3-1:2006)

[SIST EN 60384-3-1:2008](https://standards.iteh.ai/catalog/standards/sist/4967ede2-c877-47ee-b1c4-03028f811111/en-60384-3-1-2008)

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Condensateurs fixes utilisés dans les équipements électroniques - Partie 3-1: Spécification particulière cadre : Condensateurs fixes électrolytiques au tantale pour montage en surface à électrolyte solide en bioxyde de manganèse - Niveau d'assurance de la qualité EZ (IEC 60384-3-1:2006)

Ta slovenski standard je istoveten z: EN 60384-3-1:2006

ICS:

31.060.40

SIST EN 60384-3-1:2008

en,de

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SIST EN 60384-3-1:2008

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**Fixed capacitors for use in electronic equipment
Part 3-1: Blank detail specification:
Surface mount fixed tantalum electrolytic capacitors
with manganese dioxide solid electrolyte -
Assessment level EZ
(IEC 60384-3-1:2006)**

Condensateurs fixes utilisés dans les
équipements électroniques
Partie 3-1: Spécification particulière cadre:
Condensateurs fixes électrolytiques
au tantale pour montage en surface
à électrolyte solide en bioxyde
de manganèse -
Niveau d'assurance de la qualité EZ
(CEI 60384-3-1:2006)

Festkondensatoren zur Verwendung
in Geräten der Elektronik
Teil 3-1: Vordruck für Bauartspezifikation:
Oberflächenmontierbare
Tantal-Kondensatoren mit festem
Mangandioxid-Elektrolyt -
Qualitätsbewertungsstufe EZ
(IEC 60384-3-1:2006)

[SIST EN 60384-3-1:2008](https://standards.iteh.ai/catalog/standards/sist/4967ede2-c877-47ee-b1c4-826948b1f20e/iec-60384-3-1-2006)

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 40/1772/FDIS, future edition 2 of IEC 60384-3-1, 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 60384-3-1 on 2006-11-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2007-08-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-11-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60384-3-1:2006 was approved by CENELEC as a European Standard without any modification.

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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 60286-3	- ¹⁾	Packaging of components for automatic handling Part 3: Packaging of surface mount components on continuous tapes	EN 60286-3	1998 ²⁾
IEC 60384-1 (mod)	- ¹⁾	Fixed capacitors for use in electronic equipment Part 1: Generic specification	EN 60384-1 + corr. October	2001 ²⁾ 2001
IEC 60384-3	- ¹⁾	Fixed capacitors for use in electronic equipment Part 3: Sectional specification: Surface mount fixed tantalum electrolytic capacitors with manganese dioxide solid electrolyte	EN 60384-3	2006 ²⁾
IEC 60410	- ¹⁾	Sampling plans and procedures for inspection - by attributes		-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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INTERNATIONAL STANDARD

IEC
60384-3-1

QC 300801

Second edition
2006-10

Fixed capacitors for use in electronic equipment –

Part 3-1:

**Blank detail specification: Surface mount
fixed tantalum electrolytic capacitors with
manganese dioxide solid electrolyte –
Assessment level EZ**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

**Part 3-1: Blank detail specification:
Surface mount fixed tantalum electrolytic capacitors
with manganese dioxide solid electrolyte –
Assessment level EZ**

FOREWORD

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International Standard IEC 60384-3-1 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 1989 and constitutes a minor revision related to tables, figures and references.

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

FDIS	Report on voting
40/1772/FDIS	40/1790/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.

The QC numbers that appear on the front cover of this publication are the specification numbers in the IEC Quality Assessment System for Electronic Components (IECQ).

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 (new) 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 maintenance result 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.

A bilingual version of this publication may be issued at a later date.

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FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

Part 3-1: Blank detail specification: Surface mount fixed tantalum electrolytic capacitors with manganese dioxide solid electrolyte – Assessment level EZ

INTRODUCTION

Blank detail specification

A blank detail specification is a supplementary document to the sectional specification and contains requirements for style, layout and minimum content of detail specifications. Detail specifications not complying with these requirements may not be considered as being in accordance with IEC specifications nor shall they so be described.

In the preparation of detail specifications, the content of 1.4 of the sectional specification shall be taken into account.

The numbers between square brackets on the first page of the detail specification correspond to the following information, which shall be inserted in the position indicated.

Identification of the detail specification

- [1] The “International Electrotechnical Commission” or the National Standards Organization under whose authority the detail specification is drafted.
- [2] The IEC or National Standards number of the detail specification, date of issue and any further information required by the national system.
- [3] The number and issue number of the IEC or national generic specification.
- [4] The IEC number of the blank detail specification.

Identification of the capacitor

- [5] A short description of the type of capacitor.
- [6] Information on typical construction (when applicable).

NOTE When the capacitor is not designed for use in printed circuit board applications, this is clearly stated in the detail specification in this position.
- [7] Outline drawing with main dimensions which are of importance for interchangeability and/or reference to the national or international documents for outlines. Alternatively, this drawing may be given in an annex to the detail specification.
- [8] Application or group of applications covered and/or assessment level.
- [9] Reference data on the most important properties, to allow comparison between the various capacitor types.

[1]	IEC 60384-3-1-XXX QC 300801-XXX [2]
ELECTRONIC COMPONENTS OF ASSESSED QUALITY IN ACCORDANCE WITH: IEC 60384-1 IEC 60384-3 [3]	IEC 60384-3-1 [4] QC 300801
	SURFACE MOUNT FIXED TANTALUM ELECTROLYTIC CAPACITORS WITH MANGANESE DIOXIDE SOLID ELECTROLYTE [5]
OUTLINE DRAWING: (see Table 1) (first angle projection) [7] (Other shapes are permitted within the dimensions given.)	[6]
	ASSESSMENT LEVEL(S): EZ [8]
NOTE For [1] to [9]: see previous page.	

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<https://standards.iteh.ai/catalog/standards/sist/4967ede2-c877-47ee-b1c4-026f9dfdaf3d/sist-en-60384-3-1-2008> [9]

Information on the availability of components qualified to this
detail specification is given in the Qualified Products List.

1 General data

1.1 Recommended method of mounting (to be inserted)

The capacitors are mounted by their terminations (see 1.3.2 and 4.3 of IEC 60384-3).

1.2 Dimensions

Table 1 – Case-size reference and dimensions

Case-size reference	Dimensions mm or inches and mm						
	\varnothing	l	h	d		

When there is no case-size reference, Table 1 may be omitted and the dimensions shall be given in Table 2, which then becomes Table 1.