



SLOVENSKI STANDARD
SIST EN 130801:2003

01-oktober-2003

Blank Detail Specification: Tantalum surface mounting capacitors

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Vordruck für Bauartspezifikation: Oberflächenmontierbare Tantalkondensatoren

Spécification particulière cadre: Condensateurs au tantale pour montage en surface

Ta slovenski standard je istoveten z: EN 130801:2002

[SIST EN 130801:2003](https://standards.iteh.ai/catalog/standards/sist/a8b129d6-91e2-4fa0-ab97-aa06d89bb284/sist-en-130801-2003)

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ICS:

31.060.40	Tantalski elektrolitni kondenzatorji	Tantalum electrolytic capacitors
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EUROPEAN STANDARD

EN 130801

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2002

ICS 31.060.40

Supersedes CECC 30 801:1990

English version

**Blank Detail Specification:
Tantalum surface mounting capacitors**

Spécification particulière cadre:
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montage en surface

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This European Standard was approved by CENELEC on 1993-09-15. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

This European Standard was prepared by the Technical Committee CENELEC/TC 40XA, Capacitors.

The text of this European Standard consists of the text ratified on 1993-09-15 and an amendment (prAA) ratified on 1996-12-09, when it was decided to publish the combined text as EN 130801.

This European Standard supersedes CECC 30 801:1990.

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) 2002-08-01
 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-08-01
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IDENTIFICATION OF THE DETAIL SPECIFICATION(S) AND THE COMPONENT(S)

The first page of the detail specification should have the layout recommended on page 4 of this blank detail specification. The numbers in square brackets correspond to the following information which shall be inserted at the position indicated:

- [1] The name of the National Standards Organisation under whose authority the detail specification is published and, if applicable, the organisation from whom the detail specification is available.
- [2] The CECC symbol and the number allotted to the detail specification by the CENELEC Central Secretariat.
- [3] The number and issue of the CECC generic and sectional specifications as relevant; also the national reference if different.
- [4] If different from the CECC number, the national number of the detail specification, date of issue and any further information required by the national system, together with any amendment numbers.
- [5] A brief description of the component or range of components.
- [6] Information on typical construction (where applicable).

For [5] and [6] the text to be given in the detail specification should be suitable for an entry in CECC 00 200 (Register of Approvals) and CECC 00 300 (Register of National Documents).

- [7] An outline drawing with the main dimensions which are of importance for interchangeability, and/or reference to the appropriate national or international document for outlines. Alternatively, this drawing may be given in an annex to the detail specification, but [7] should always contain an illustration of the general outer appearance of the component.
- [8] The level(s) of quality assessment covered by the detail specification.
- [9] Reference data giving information on the most important properties of the component which allow comparison between the various component types intended for the same, or similar applications.

[1]	CECC 30801-... [2]
ELECTRONIC COMPONENTS OF ASSESSED QUALITY - DETAIL SPECIFICATION IN ACCORDANCE WITH: EN 130000:1993 EN 130800:1998 [3]	[4]
OUTLINE DRAWING (first angle projection): [7]	DETAIL SPECIFICATION FOR TANTALUM SURFACE MOUNTING CAPACITORS [5]
	TYPICAL CONSTRUCTION (Examples) [6]
(Other shapes are permitted within the dimensions given, see Table 1)	ASSESSMENT LEVEL: E [8]
[9]	

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QUICK REFERENCE DATA: Rated capacitance range, capacitance tolerance, rated voltage range, climatic category, performance grade.

Information about manufacturers who have components qualified to this detail specification is available in the current CECC 00200: Register of Firms, Products and Services approved under the CECC system (Register or Approvals).

1 General data

1.1 Recommended method of mounting

The capacitors are mounted by their terminations. See 1.3.2 of the sectional specification EN 130800:1998.

1.2 Dimensions

Table 1

Case size reference	Dimensions (in mm)							
	l	w	h	d

NOTE 1 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.

NOTE 2 The dimensions shall be given as maximum dimensions or as nominal dimensions with a tolerance.

1.3 Ratings and characteristics

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Capacitance range	(see Table 2A)
Tolerance on rated capacitance
Rated voltage	(see Table 2A)
Category voltage (if applicable)	(see Table 2A)
Climatic category
Rated temperature
Variation of capacitance with temperature	(see Table 2B)
Tangent of loss angle	(see Table 2B)
Leakage current	(see Table 2B)
Impedance or equivalent series resistance (if required)	(see Table 2C)
Surge voltage

Table 2A

Rated voltage				
Category voltage ¹⁾				
Rated capacitance	Case size	Case size	Case size	Case size
1) If different from the rated voltage.				

Table 2B
Characteristics at high and low temperature

U _R (V)	C _R (μF)	Capacitance change %			Maximum values						
					Tangent of loss angle (%)				Leakage current (μA)		
		T _A	T _R	T _B	T _A	20 °C	T _R	T _B	20 °C	T _R	T _B ¹⁾

T_A : Lower category temperature.
 T_B : Upper category temperature.
 T_R : Rated temperature.
 1) Measured with category voltage.

Table 2C

Impedance at 100 kHz (if required)

Case size	Impedance (Ω)

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Equivalent series resistance (ESR) at 100 kHz (if required)

Rated voltage U _R (V)			
Rated capacitance (μF)	Maximum ESR (mΩ)		

1.4 Related documents

Generic specification: EN 130000:1993
 Sectional specification: EN 130800:1998

1.5 Marking

The marking of the capacitor and the packing shall be in accordance with the requirements of 1.5 of the sectional specification EN 130800:1998.

NOTE The details of the marking of the component and packing shall be given in full in the detail specification.

1.6 Ordering information

Orders for capacitors covered by this specification shall contain, in clear or in coded form, the following minimum information:

- 1) rated capacitance;
- 2) tolerance on rated capacitance;
- 3) rated voltage (d);
- 4) number and issue reference of the detail specification and case size reference;
- 5) packaging (bulk or taped; if taped, according to IEC 60286-3).

1.7 Certified test records

Required / not required.

1.8 Additional information (not for inspection purposes)

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1.9 Additional or increased severities or requirements to those specified in the generic and/or sectional specification

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NOTE Additions or increased requirements should be specified only when essential.

Table 3

Other characteristics

<p>This table is to be used for defining characteristics which are additional to or tighter than those given in the sectional specification.</p>
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