



**SLOVENSKI STANDARD**  
**SIST EN 132101:2002**  
**01-september-2002**

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**Blank detail specification: Fixed multilayer ceramic surface mounting capacitors - Assessment level EZ**

Blank Detail Specification: Fixed multilayer ceramic surface mounting capacitors - Assessment level EZ

Vordruck für Bauartspezifikation: Oberflächenmontierbare Vielschichtkeramik-Festkondensatoren - Qualitätsbewertungsstufe EZ

PREVIEW  
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[SIST EN 132101:2002](https://standards.iteh.ai/catalog/standards/sist/92a18bf2-0832-4851-a3d4-dca527a53a6a/sist-en-132101-2002)

Ta slovenski standard je istoveten z: **EN 132101:1996**

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**ICS:**

31.060.20      S^|æ ā} ā[ } ā^}: æf |lä  
•|b ā} ā[ } ā^}: æf |lä      Ceramic and mica capacitors

**SIST EN 132101:2002**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 132101**

CCC/SC 40XA

August 1996

ICS 31.060.20

Supersedes EN 132101:1991

Descriptors: Fixed capacitors, ceramic, surface mounting, multilayer, quality assessment, test and measurement, assessment level EZ

English version

**Blank Detail Specification:  
Fixed multilayer ceramic surface mounting capacitors  
Assessment level EZ**

Vordruck für Bauartspezifikation:  
Oberflächenmontierbare  
Vielschichtkeramik-Festkondensatoren  
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This European Standard was approved by CENELEC on 1996-03-05. 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.

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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

This European Standard was prepared by CENELEC/TC CECC/SC 40XA, Capacitors.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 132101 on 1996-03-05.

This European Standard supersedes EN 132101:1991.

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) 1997-03-01
  - latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 1997-03-01
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**IDENTIFICATION OF THE DETAIL SPECIFICATION AND THE COMPONENT**

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 Organization under whose authority the detail specification is published and, if applicable, the organization from whom the detail specification is available
- [2] The CECC symbol and number allotted to the detail specification by the CENELEC Central Secretariat
- [3] The number and issue number of the CECC generic and sectional specification as relevant; also 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 when 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 main dimensions which are of importance for interchangeability and/or reference to the appropriate national or international document for outlines. Alternatively, the 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 for similar, applications.

	[1]	CECC 32 101-...	[2]
ELECTRONIC COMPONENTS OF ASSESSED QUALITY DETAIL SPECIFICATION IN ACCORDANCE WITH:  EN 130000:1993 EN 132100:1996	[3]		[4]
Outline drawing (1 <sup>st</sup> angle projection):	[7]	DETAIL SPECIFICATION FOR FIXED MULTILAYER CERAMIC SURFACE MOUNTING CAPACITORS	[5]
		TYPICAL CONSTRUCTION (Examples):  strip terminations (if applicable)	[6]
			[8]
(Other shapes are permitted within the dimensions given, see Table 1.)		ASSESSMENT LEVEL: EZ	

[9]  
REFERENCE DATA: Rated capacitance range, capacitance tolerance,  
d.c. rated voltage range, climatic category, performance grade

Information about manufacturers who have components qualified to this detail specification is available in the current CECC 00 200: Register of Firms, Products and Services Approved under the CECC System (Register of Approvals).

## 1 - GENERAL DATA

## 1.1 Method of mounting

See 1.3.2 of the sectional specification.

## 1.2 Dimensions

TABLE 1

Case size reference	Dimensions mm					
	D	L	H	d	.....	

NOTE 1 - When there is no case size reference, Table 1 may be omitted and the dimensions shall be given in Table 2A, 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

Capacitance range	(see Table 2A)
Tolerance on rated capacitance	
Rated voltage	(see Table 2A)
Climatic category	SIST EN 132101:2002
Rated temperature	<a href="https://standards.iteh.ai/catalog/standards/sist/92a18bf2-0832-4851-a3d4-dea327a53a6a/sist-en-132101-2002">https://standards.iteh.ai/catalog/standards/sist/92a18bf2-0832-4851-a3d4-dea327a53a6a/sist-en-132101-2002</a>
Tangent of loss angle ( $\tan \delta$ )	
Insulation resistance	
Temperature coefficient (Class 1)	$\alpha: \dots 10^{-6}/^{\circ}\text{C}$
Temperature characteristics of capacitance (Class 2)	$\dots Z$
Type of termination material	

TABLE 2A

Values of capacitance related to voltages and case sizes

Rated voltage V				
Category voltage V <sup>1)</sup>				
	Case size	Case size	Case size	Case size
Rated capacitance pF				
1) If different from the rated voltage				

#### 1.4 Related documents

Generic specification: EN 130000  
Sectional specification: EN 132100

#### 1.5 Marking

The marking of the capacitor, if any, and the packing shall be in accordance with 1.5 of EN 132100.

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

- If coded marking is employed, the code as given in Annex A shall be used.

#### 1.6 Ordering information

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

- (1) Rated capacitance
- (2) Tolerance on rated capacitance
- (3) Rated voltage
- (4) Number and issue reference of the detail specification and style reference
- (5) Packaging instructions.

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#### 1.7 Certified test records of released lots

[SIST EN 132101:2002](https://standards.iteh.ai/catalog/standards/sist/92a18bf2-0832-4851-a3d4-dea327a53a6a/sist-en-132101-2002)

Required/not required: <https://standards.iteh.ai/catalog/standards/sist/92a18bf2-0832-4851-a3d4-dea327a53a6a/sist-en-132101-2002>

#### 1.8 Additional information (not for inspection purposes)

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

NOTE - Additional or increased requirements should be specified only when essential.

TABLE 3  
Other characteristics

This table is to be used for defining characteristics which are additional to or more severe than those given in the sectional specification.
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## 2 - INSPECTION REQUIREMENTS

### 2.1 Procedures

2.1.1 For Qualification Approval the procedures shall be in accordance with 3.4 of EN 132100.

2.1.2 For Quality Conformance Inspection the test schedule (Table 4) includes sampling, periodicity, severities and requirements. The formation of inspection lots is covered by 3.5.1 of EN 132100.

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