



SLOVENSKI STANDARD
SIST EN 129102:2002

01-september-2002

Blank detail specification: Wire wound surface mounting inductors of assessed quality - Assessment level P

Blank Detail Specification: Wirewound surface mounting inductors of assessed quality - Assessment level P

Vordruck für Bauartspezifikation: Drahtgewickelte oberflächenmontierbare Spulen mit Gütebestätigung - Gütebestätigungsstufe P

Spécification particulière cadre: (n'existe pas en français)

Ta slovenski standard je istoveten z: EN 129102:1994

ICS:

31.220.99	Druge elektromehanske komponente	Other electromechanical components
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 129102

July 1994

+ A1

August 1995

Descriptors: Quality, electronic components, inductors

English version

**Blank Detail Specification:
Wirewound surface mounting inductors of assessed
quality
Assessment level P**

(includes amendment A1:1995)

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Vordruck für Bauartspezifikation:
Drahtgewickelte oberflächenmontierbare
Spulen mit Gütebestätigung
Gütebestätigungsstufe P
(enthält Änderung A1:1995)

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This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 9 August 1993. 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 General Secretariat of the CECC 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 CECC General Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom. The membership of the CECC is identical, with the exception of the national electrotechnical committees of Greece, Iceland and Luxembourg.

CECC

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 CENELEC Electronic Components Committee (CECC) is composed of those member countries of the European Committee for Electrotechnical Standardization (CENELEC) who wish to take part in a harmonized System for electronic components of assessed quality.

The object of the System is to facilitate international trade by the harmonization of the specifications and quality assessment procedures for electronic components, and by the grant of an internationally recognized Mark, or Certificate, of Conformity. The components produced under the System are thereby acceptable in all member countries without further testing.

This specification was prepared by the German ONH under the Single Originator Procedure for approval and publication of CECC specifications (see RP 11 — V).

The text of the draft based on document CECC(Secretariat)3263/01.93 was submitted to the formal vote; together with the voting report, circulated as document

CECC(Secretariat)3384/07.93, it was approved by CECC as EN 129102 on 9 August 1993.

The following dates were fixed:

- latest date of announcement of the EN at national level (doa) 1993-11-08
- latest date of publication of an identical national standard (dop) 1994-05-08
- latest date of withdrawal of conflicting national standards (dow) 1995-05-08

Foreword to amendment A1

This amendment was prepared by Working Group CLC/TC CECC/WG DE.

The text of the draft based on document CECC (Secretariat) 3587 was submitted to the formal vote; together with the voting report, circulated as document CECC (Secretariat) 3636, it was approved as amendment A1 to EN 129102:1994 on 1994-12-28.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1995-10-24
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1996-10-24

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Identification of the Detail Specification (DS) and the component

The first page of the DS should have the layout recommended on page 4. The numbers in square brackets correspond to the indications to be completed thereunder:

- [1] The name of the National Standards Organization under whose authority the DS is published and, if applicable, the organization from whom the DS is available
 - [2] The CECC symbol and the number allotted to the DS by the CECC General Secretariat
 - [3] The number and year of publication of the EN generic and sectional specification as relevant; also national reference if different
 - [4] If different from the CECC number, the national number of the DS, 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)
 - [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, this drawing may be given in an annex to the DS, 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 DS
 - [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
- For [5] and [6] the text to be given in the DS should be suitable for an entry in CECC 00200 (Register of Approvals) and CECC 00301 (Register of CECC Specifications and Related Detail Specifications).

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Specification available from: [1]	CECC 29102-xxx [2]
ELECTRONIC COMPONENTS OF ASSESSED QUALITY — DETAIL SPECIFICATION IN ACCORDANCE WITH: EN 129000:1993 EN 129100:1993 [3]	[4]
Outline and dimensions: (First angle projection) [7]	DETAIL SPECIFICATION FOR WIREWOUND SURFACE MOUNTING INDUCTORS [5]
	TYPICAL CONSTRUCTION (Examples). [6]
	Assessment level P [8]
	[9]

QUICK REFERENCE DATA: Rated inductance range, inductance tolerance, rated current, climatic category, performance grade

Information about manufacturer who have components qualified to this detail specification is available in the current CECC 00200.

1 General data

1.1 Recommended method of mounting

The inductors are mounted by their terminations. See 1.3.2 of the sectional specification EN 129000:1993.

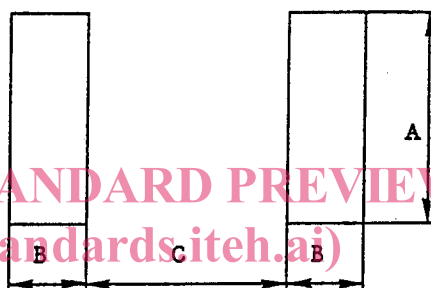
1.2 Dimensions

Table 1

Case size reference	Dimensions (in mm)							
	L	W	H					

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

Soldering pads for measuring and testing on printed boards



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Case Size	A	B	C
	mm		

1.3 Ratings and characteristics

Rated inductance range	(See Table 2)
Tolerance of rated inductance
Q-factor]
D.C. resistance]
Self-resonant frequency]
Rated current]
Climatic category
Rated temperature

Table 2

L_R nH	f_L MHz	$Q_{min.}$	f_Q MHz	$R_{max.}$ Ω	$f_{res. min.}$ MHz	I_R mA	I_{CR} mA	Type of Core- material
I_{CR} : incremental current		f_L : measuring frequency for inductance						
I_R : rated current								
L_R : rated inductance		f_Q : measuring frequency for Q						
Q : quality factor		f_{res} : resonant frequency						
R : D.C. resistance								

1.4 Related documents

Generic specification: EN 129000:1993

Sectional specification: EN 129100:1993

1.5 Marking

The marking of the inductor and of the packing shall be in accordance with the requirements of 1.5 of the sectional specification EN 129100:1993. (standards.iteh.ai)

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

1.6 Ordering information

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

- 1) Rated inductance
- 2) Tolerance on rated inductance
- 3) Number of detail specification and case size reference
- 4) Packaging (bulk or taped; if taped, according to IEC 286-3)

1.7 Certified test records

Required/not required

1.8 Additional information (not for inspection purpose)

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

NOTE Additions 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 tighter than those given in the sectional specification.

2 Qualification approval and Inspection requirements

2.1 Procedures

2.1.1 For Qualification Approval the procedures shall be in accordance with 3.4 of the sectional specification EN 129100:1993.

2.1.2 For Quality Conformance Inspection the test schedule (Table 4A and Table 4B) includes sampling, periodicity, severities and requirements. The formation of inspection lots is covered by 3.5.1 of the sectional specification EN 129100:1993.

Notes to Table 4A and Table 4B

- (1) Clause numbers of tests and performance requirements refer to the sectional specification EN 129100:1993.
- (2) D = destructive
ND = non destructive
P = periodicity (in months)
n = number of specimens (sample size)
c = number of permissible defectives (acceptance criterion)
IL = inspection level (selected from IEC 410)
AQL = acceptable quality level (selected from IEC 410)
- (3) Not applicable to surface mounting inductors, which according to their detail specification shall only be mounted on alumina substrates.

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