SLOVENSKI STANDARD
SIST EN 169201:2002

01-september-2002

Blank detail specification: Quartz crystal controlled oscillators (Qualification approval)

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Vordruck für Bauartspezifikation: Quartzoszillatoren (Bauartanerkennung)

Spécification particulière cadre: Oscillateurs pilotés par quartz (Homologation)

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Ta slovenski standard je istoveten z: **EN 169201:1995**

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ICS:

31.140	Piezoelektriļne in dielektriļne naprave	Piezoelectric and dielectric devices

SIST EN 169201:2002 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 169201

July 1995

- 08 - 1995

Descriptors: Quality, electronic components, quartz crystal controlled oscillators

English version

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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.

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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

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Ref. No. EN 169201:1995 E

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Foreword

This European Standard was prepared by Working Group CLC/TC CECC/WG 17.

The text of the draft based on document CECC(Secretariat)3326 was submitted to the formal vote; together with the voting report, circulated as document CECC(Secretariat)3456, it was approved as EN 169201 on 1993-11-01.

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) 1996-01-31
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-01-31

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BLANK DETAIL SPECIFICATION

A blank detail specification is a supplementary document to the sectional specification and contains requirements for style and layout and minimum content of detail specifications. In the preparation of detail specifications the content of section 2 of EN 169 000 shall be taken into account.

This specification may be inappropriate for small batch production of quartz crystal controlled oscillators in which case the qualification approval approach is recommended.

IDENTIFICATION OF THE DS AND THE COMPONENT

The first page of the DS should have the layout recommended on page 3.
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

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[3] The number and issue number of the CECC generic or 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

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[5] A brief description of the component or range of components; for example: SPXO, output frequency

[6] Information on typical construction (where applicable); for example: resistance welded, cold welded

For [5] and [6] the text to be given in the DS should be suitable for an entry in CECC 00 200 (QPL) and CECC 00 300 (Library List).

[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 similar, applications.

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Specification available from : [1]	[2] CECC 69 201-XXX Issue ..... Date ..... Page 1 of .....
ELECTRONIC COMPONENTS OF ASSESSED QUALITY BY QUALIFICATION APPROVAL IN ACCORDANCE WITH : [3]	[4]
Outline and dimensions - (first angle projection) : [7]	TYPE OF OSCILLATOR [5]
	ENCLOSURE [6]
Dimensions in mm	ASSESSMENT LEVEL [8]

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1. RATINGS (see 2.4 of EN 169 000 for preferred ratings)

Operating temperature range

Climatic category

Mechanical test severities

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.

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2. CHARACTERISTICS (see 2.3 of EN 169 000)

Nominal output frequency/range

Reference temperature

Frequency tolerance(s)

Input conditions (as applicable)

Voltage :

Current :

Power :

Output conditions (as applicable)

Voltage :

Power :

Waveform:

Load :

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Ageing

The following characteristics shall be stated as applicable

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Control voltage

Pulling sensitivity

Linearity

Modulation details

Oven supply

Voltage :

Current :

or

Power :

Stabilization time

Retrace

In addition other characteristics may be stated

Note: Information on the above characteristics may be given in tabular form.

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3. RELATED DOCUMENTS

Generic specification	EN 169 000
Sectional specification	EN 169 200

4. MARKING

The marking of the quartz crystal oscillator and the primary package shall be in accordance with the requirements of 2.5 of EN 169 000. Full details shall be given in the detail specification.

5. ORDERING INFORMATION

The following ordering information shall be specified :

(1) Quantity
(2) CECC detail specification number, issue number and date

and where applicable

(3) Nominal frequency expressed in kHz or MHz
(4) Product code
(5) Frequency tolerance(s) and operating temperature range
(6) Full description of any additional requirements.

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6. CERTIFIED TEST RECORDS

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The detail specification shall state whether certified test records are required/not required in accordance with 3.12 of EN 169 000.

7. ADDITIONAL INFORMATION (not for inspection purposes)

The detail specification may include information (which is not normally required to be verified by the inspection procedure) such as circuit diagrams, curves, drawings and notes for the clarification of the detail specification.

8. INSPECTION REQUIREMENTS

Clause numbers of tests and performance requirements refer to EN 169 000

The ILs and AQLs given in table 1 are the minimum quality levels required and selected from IEC 410

In this table

p = periodicity (in months)
n = sample size
c = acceptance criterion (permitted number of defectives)
D = destructive
ND = non-destructive
IL = inspection level
AQL = acceptable quality level.

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TABLE 1

CLAUSE NUMBER AND TEST		D or ND	CONDITIONS OF TEST	IL	AQL %	PERFORMANCE REQUIREMENTS
100% INSPECTION		ND				
4.3.1	Visual test A		as 4.3.1			as 4.3.1
4.6.2(1)	Gross leak test (for sealed devices only)		as 4.6.2(1)			as 4.6.2(1)
4.5.4	Output Frequency at reference temperature		as 4.5.4			Frequency tolerance(s) including offset frequency where applicable
4.5.5.(1)	Frequency at specified temperatures		as 4.5.5(1)			Frequency tolerance(s)
4.5.11	Frequency adjustment (where applicable)		as 4.5.11			Minimum or minimum and maximum frequency change
4.5.23	Frequency modulation charactistics Test (1) to (5) as applicable		as 4.5.23 Test (1) to (5) as applicable			as 4.5.23
GROUP A INSPECTION To be conducted on a sampling basis, lot-by-lot						
Sub-Group A1		ND		II	1,5	
4.5.13 or 4.5.14	Oscillator output voltage		as 4.5.13 or as 4.5.14			Minimum and maximum voltages
4.5.15 or 4.5.16	Oscillator output waveform		as 4.5.15 or as 4.5.16			Waveform as specified

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