



SLOVENSKI STANDARD

SIST EN 169101:2004

01-januar-2004

Okvirna podrobna specifikacija: Kristalni oscilatorji (potrjevanje zmogljivosti)

Blank Detail Specification: Quartz crystal controlled oscillators (Capability approval)

Vordruck für Bauartspezifikationen: Quarzoszillatoren (Befähigungsanerkennung)

Spécification particulière cadre Oscillateurs pilotés par quartz (Agrément de savoir-faire)

Ta slovenski standard je istoveten z: EN 169101:1993

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ICS:

31.140	Piezelektrične in dielektrične naprave	Piezoelectric and dielectric devices
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en

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UDC

Descriptors: Quality, electronic components, oscillators

English version

Blank Detail Specification:
Quartz Crystal Controlled Oscillators
(Capability Approval)

Spécification Particulière Cadre:
Oscillateurs pilotés par quartz
(Agrément de savoir-faire)

Vordruck für Bauartspezifikationen:
Quarzoszillatoren
(Befähigungsanerkennung)

This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 31 August 1992. CENELEC members are bound to comply with 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

CENELEC Electronic Components Committee

Comité des Composants Electroniques du CENELEC

CENELEC- Komitee für Bauelemente der Elektronik

General Secretariat: Gartenstr. 179, W- 6000 Frankfurt/Main 70

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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 European Standard was prepared by CECC WG 17, " Piezoelectric devices for frequency control and selection".

The text of the draft based on documents CECC(Secretariat)2901 to 2904/10.91 was submitted to the formal vote together with the voting reports, circulated as documents CECC(Secretariat)3107, 3108, 3109, 3110/04.92 and 3107A, 3108A, 3109A, 3110A/07.92. The text was approved by CECC as EN 169 101 : 1993 on 31 August 1992.

The following dates were fixed:

- | | | |
|---|-------|-------------------|
| - latest date of announcement of the EN at national level | (doa) | 1993-06-17 |
| - latest date of publication of an identical national standard | (dop) | 1993-12-17 |
| - latest date of declaration of national standards obsolescence | | 1993-12-17 |
| - latest date of withdrawal of conflicting national standards | (dow) | 2003-06-17 |

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BLANK DETAIL SPECIFICATION

A blank detail specification is a supplementary document to the sectional specification and contains requirements for the minimum content of detail specifications.

The front page layout shown on page 4 is applicable to detail specifications for standard catalogue items only.

For custom-built quartz crystal controlled oscillators where the detail specification is not intended for publication, a suggested layout for the front page is given in Annex A. This is not mandatory, but it is recommended that the layout should be followed whenever possible.

IDENTIFICATION OF THE DETAIL SPECIFICATION AND OF THE COMPONENT

The numbers between the square brackets on page 4 correspond to the following information which should be given in the appropriate boxes.

- [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 the number allotted to the detail specification by the CECC General Secretariat.
- [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 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 quartz crystal controlled oscillator. (For example, SPXO and 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 detail specification should be suitable for an entry in CECC 00 200 and CECC 00 300.

- [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 detail specification.

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Specification available from :	[1]	EN 69 101-XXX	[2]
		Page 1 of ...	
ELECTRONIC COMPONENTS OF ASSESSED QUALITY BY CAPABILITY APPROVAL IN ACCORDANCE WITH :	[3]		[4]
Outline and dimensions - (first angle projection) :	[7]	TYPE OF OSCILLATOR	[5]
		ENCLOSURE	[6]
Dimensions in mm			

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.

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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 :

Ageing

The following characteristics shall be stated as applicable :

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.

3. RELATED DOCUMENTS

Generic specification EN 169 000

Sectional specification EN 169 100

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4. MARKING

The marking of the quartz crystal controlled 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 or customer 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.

6. CERTIFIED TEST RECORDS

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 are selected from IEC 410

In this table

- D = destructive
- ND = non-destructive
- IL = inspection level
- AQL = acceptable quality level

The manufacturer and his customer shall ensure that any quality aspects of the quartz crystal controlled oscillator to be supplied that are not covered by the maintenance of the capability approval programme are included in the detail specification.

This blank detail specification does not include any periodic tests as these are controlled by the CQC testing under the maintenance of the capability approval as defined in 3.11 and 3.12 of EN 169 100.

TABLE 1

CLAUSE NUMBER AND TEST	D or ND	Conditions of test	IL	AQL %	PERFORMANCE REQUIREMENTS
<u>100% INSPECTION</u>	ND				
4.3.1 Visual test A		4.3.1			4.3.1
4.5.4 Output Frequency at reference temperature		4.5.4			Frequency tolerance(s) including offset frequency where applicable
or					
4.5.5(1) Frequency at specified temperatures		4.5.5(1)			Frequency tolerance(s)
4.5.11 Frequency adjustment (where applicable)		4.5.11			Minimum or minimum and maximum frequency change
or					
4.5.23 Frequency modulation characteristics Test (1) to (5) as applicable		4.5.23 Test (1) to (5) as applicable			as 4.5.23
<u>GROUP A INSPECTION</u> To be conducted on a sampling basis, lot-by-lot					
<u>Sub-Group A1</u>	ND		II	1,5	
4.5.13 Oscillator output		4.5.13			Limits as specified
or		or			
4.5.14 voltage		4.5.14			
4.5.15 Oscillator output		4.5.15			Waveform as specified
or		or			
4.5.16 waveform		4.5.16			
4.5.3(1) Oscillator input power		4.5.3(1)			Maximum power or current
and					

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