SLOVENSKI STANDARD
SIST EN 60679-5-1:2002

01-september-2002

Quartz crystal controlled oscillators of assessed quality - Part 5-1: Blank detail specification - Qualification approval (IEC 60679-5-1:1998)

Quartz crystal controlled oscillators of assessed quality -- Part 5-1: Blank detail specification - Qualification approval

Quarzoszillatoren mit bewerteter Qualität -- Teil 5-1: Vordruck für Bauartspezifikation - Bauartanerkennung

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Oscillateurs pilotés par quartz sous assurance de la qualité -- Partie 5-1: Spécification particulière cadre - Homologation

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Ta slovenski standard je istoveten z: **EN 60679-5-1:1998**

ICS:

31.140	Piezoelektriļ ne in dielektriļ ne naprave	Piezoelectric and dielectric devices

SIST EN 60679-5-1:2002 **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 60679-5-1

August 1998

ICS 31.140

English version

Quartz crystal controlled oscillators of assessed quality
Part 5-1: Blank detail specification - Qualification approval
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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 60679-5-1:1998 E

SIST EN 60679-5-1:2002

Foreword

The text of document 49/403/FDIS, future edition 1 of IEC 60679-5-1, prepared by IEC TC 49, Piezoelectric and dielectric devices for frequency control and selection, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60679-5-1 on 1998-08-01.

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) 1999-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-05-01

This European Standard is to be used in conjunction with:

- EN 60679-1: Quartz crystal controlled oscillators of assessd quality Part 1: Generic specification
- EN 60679-5: Quartz crystal controlled oscillators of assessed quality Part 5: Sectional specification - Qualification approval

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Endorsement notice

The text of the International Standard IEC 60679-5-1:1998 was approved by CENELEC as a European Standard without any modification.

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NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
60679-5-1

QC 690201

Première édition
First edition
1998-04

Oscillateurs pilotés par quartz sous assurance de la qualité –

Partie 5-1: Spécification particulière cadre – Homologation

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Quartz crystal controlled oscillators of assessed quality –

SIST EN 60679-5-1:2002
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Part 5-1: Blank detail specification – Qualification approval

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Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE K

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SIST EN 60679-5-1:2002

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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QUARTZ CRYSTAL CONTROLLED OSCILLATORS OF ASSESSED QUALITY –

Part 5-1: Blank detail specification – Qualification approval

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.

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International Standard IEC 60679-5-1 has been prepared by IEC technical committee 49: Piezoelectric and dielectric devices for frequency control and selection.

It shall be used in conjunction with:

IEC 60679-1/QC 690000: Quartz crystal controlled oscillators of assessed quality – Part 1: Generic specification.

IEC 60679-5/QC 690200: Quartz crystal controlled oscillators of assessed quality – Part 5: Sectional specification – Qualification approval.

This International Standard forms the blank detail specification – Qualification approval, for quartz crystal controlled oscillators of assessed quality.

IEC 60679-4 forms the sectional specification – Capability approval.

IEC 60679-4-1 forms the blank detail specification – Capability approval.

The text of this standard is based on the following documents:

FDIS	Report on voting
49/403/FDIS	49/410/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

The QC number that appears on the front cover of this publication is the specification number in the IEC Quality Assessment System for Electronic Components (IECQ).

SIST EN 60679-5-1:2002

INTRODUCTION

Blank detail specification

A blank detail specification is a supplementary document to the sectional specification and contains requirements for style, layout and minimum content of detail specifications. In the preparation of detail specifications the content of clause 2 of IEC 60679-5 shall be taken into account.

This specification may be inappropriate for small batch production of quartz crystal controlled oscillators in which case the capability approval approach is recommended. (See IEC 60679-4.)

Identification of the detail specification (DS) and of the component

The first page of the DS should have the layout recommended below. The numbers between the square brackets on the front page 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 DS is published and, if applicable, that of the organization from which the DS is available.

[2] The IECQ number allotted to the DS.

[3] The number and issue number of the IEC generic or sectional specification as relevant as well as the national reference if different.

[4] If different from the IECQ 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 quartz crystal controlled oscillator or range of oscillators (for example, SPXO and output frequency).

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

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For [5] and [6] the text to be given in the DS should be suitable for entry in IEC QC 001005 and IEC QC 001004.

[7] An outline drawing with the main dimensions which are of importance for interchangeability as demanded in IEC 60679-3 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.

SIST EN 60679-5-1:2002

<table>
<tr><td>Specification available from: [1]</td><td>IECQ Edition ..... [2]
Date.....
Page 1 of .....
QC 690201</td></tr>
<tr><td>ELECTRONIC COMPONENTS OF ASSESSED QUALITY BY QUALIFICATION APPROVAL IN ACCORDANCE WITH:
Generic specification:
Publication IEC 60679-1/QC 690000
Sectional specification:
Publication IEC 60679-5/QC 690200 [3]</td><td>[4]</td></tr>
<tr><td rowspan="3">Outline and dimensions (third-angle projection): [7]

Dimensions in millimetres</td><td>TYPE OF OSCILLATOR [5]</td></tr>
<tr><td>ENCLOSURE [6]</td></tr>
<tr><td>Assessment level [8]</td></tr>
<tr><td colspan="2">[9]</td></tr>
</table>

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SIST EN 60679-5-1:2002
https://standards.iteh.ai/catalog/standards/sist/3c4b4032-4b22-4174-9290-4bec343c4a57/sist-en-60679-5-1-2002

SIST EN 60679-5-1:2002

QUARTZ CRYSTAL CONTROLLED OSCILLATORS OF ASSESSED QUALITY –

Part 5-1: Blank detail specification – Qualification approval

1 Ratings (see 2.3 of IEC 60679-1 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 IEC QC 001005.

2 Characteristics (see 2.2 of IEC 60679-1)

– 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

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The following characteristics shall be stated as applicable:

– control voltage if VCXO
– pulling sensitivity if VCXO
– linearity if VCXO
– modulation details if VCXO
– oven supply if OCXO
  Voltage:
  Current:
  or
  Power:
– stabilization time if OCXO or TCXO
– retraceability if OCXO

In addition other characteristics may be stated.

NOTE 1 – Information on the above characteristics may be given in tabular form, if necessary.