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Quartz crystal controlled oscillators of assessed quality - Part 1: Generic specification
(IEC 60679-1:2007)

iTeh STANDARD PREVIEW

Quarzoszillatoren mit bewerteter Qualität - Teil 1: Fachgrundspezifikation (IEC 60679-1:2007)

[SIST EN 60679-1:2008](https://standards.iteh.ai/catalog/standards/sist/3773c2cf-0ff7-46f9-9ec0-000000000000)

<https://standards.iteh.ai/catalog/standards/sist/3773c2cf-0ff7-46f9-9ec0-000000000000>

Oscillateurs pilotés par quartz sous assurance de la qualité - Partie 1: Spécification
générique (IEC 60679-1:2007)

Ta slovenski standard je istoveten z: EN 60679-1:2007

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SIST EN 60679-1:2008

<https://standards.iteh.ai/catalog/standards/sist/3773c2cf-0ff7-46f9-bec0-54c5733fe0aa/sist-en-60679-1-2008>

English version

**Quartz crystal controlled oscillators of assessed quality -
Part 1: Generic specification
(IEC 60679-1:2007)**

Oscillateurs pilotés par quartz
sous assurance de la qualité -
Partie 1: Spécification générique
(CEI 60679-1:2007)

Quarzoszillatoren
mit bewerteter Qualität -
Teil 1: Fachgrundspezifikation
(IEC 60679-1:2007)

This European Standard was approved by CENELEC on 2007-05-01. 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 two official versions (English and 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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

The text of document 49/769/FDIS, future edition 3 of IEC 60679-1, 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 60679-1 on 2007-05-01.

This European Standard supersedes EN 60679-1:1998 + A1:2002 + A2:2003.

It represents a step in a revision of all parts of the EN 60679 series to include the test requirements of the IECQ system. EN 60679-1:2007 is based on the relevant standards of that system.

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) 2008-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2010-05-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60679-1:2007 was approved by CENELEC as a European Standard without any modification. (standards.iteh.ai)

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

		SIST EN 60679-1:2008
IEC 60122-1	NOTE	https://standards.iteh.ai/catalog/standards/sist/3773c2cf-097-46f9-bec0-54c5733fe0aa/sist-en-60679-1-2008 Harmonized as EN 60122-1:2002 (not modified).
IEC 60679-3	NOTE	Harmonized as EN 60679-3:2001 (not modified).
IEC 60679-4	NOTE	Harmonized as EN 60679-4:1998 (not modified).
IEC 61000-4-3	NOTE	Harmonized as EN 61000-4-3:2006 (not modified).

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60027	Series	Letter symbols to be used in electrical technology	EN 60027	Series
IEC 60050-561	- ¹⁾	International Electrotechnical Vocabulary (IEV) - Part 561: Piezoelectric devices for frequency control and selection	-	-
IEC 60068-1 + corr. October + A1	1988 1988 1992	Environmental testing - Part 1: General and guidance	EN 60068-1	1994
IEC 60068-2-1	- ¹⁾	Environmental testing - Part 2: Tests - Test A: Cold	EN 60068-2-1	2007 ²⁾
IEC 60068-2-2	- ¹⁾	Environmental testing - Part 2: Tests - Tests B: Dry heat	EN 60068-2-2	1993 ²⁾
IEC 60068-2-6	- ¹⁾	Environmental testing - Part 2: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	1995 ²⁾
IEC 60068-2-7	- ¹⁾	Environmental testing - Part 2: Tests - Test Ga: Acceleration, steady state	EN 60068-2-7	1993 ²⁾
IEC 60068-2-10	- ¹⁾	Environmental testing - Part 2-10: Tests - Test J and guidance: Mould growth	EN 60068-2-10	2005 ²⁾
IEC 60068-2-13	- ¹⁾	Environmental testing - Part 2: Tests - Test M: Low air pressure	EN 60068-2-13	1999 ²⁾
IEC 60068-2-14	- ¹⁾	Environmental testing - Part 2: Tests - Test N: Change of temperature	EN 60068-2-14	1999 ²⁾
IEC 60068-2-17	- ¹⁾	Environmental testing - Part 2: Tests - Test Q: Sealing	EN 60068-2-17	1994 ²⁾
IEC 60068-2-20	- ¹⁾	Environmental testing - Part 2: Tests - Test T: Soldering	HD 323.2.20 S3	1988 ²⁾
IEC 60068-2-21	- ¹⁾	Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices	EN 60068-2-21	2006 ²⁾

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-27	- ¹⁾	Environmental testing - Part 2: Tests - Test Ea and guidance: Shock	EN 60068-2-27	1993 ²⁾
IEC 60068-2-29	- ¹⁾	Environmental testing - Part 2: Tests - Test Eb and guidance: Bump	EN 60068-2-29	1993 ²⁾
IEC 60068-2-30	- ¹⁾	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	2005 ²⁾
IEC 60068-2-32	- ¹⁾	Environmental testing - Part 2: Tests - Test Ed: Free fall	EN 60068-2-32	1993 ²⁾
IEC 60068-2-45	- ¹⁾	Environmental testing - Part 2: Tests - Test Xa and guidance: Immersion in cleaning solvents	EN 60068-2-45	1992 ²⁾
IEC 60068-2-52	- ¹⁾	Environmental testing - Part 2: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	EN 60068-2-52	1996 ²⁾
IEC 60068-2-58	- ¹⁾	Environmental testing - Part 2-58: Tests - Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)	EN 60068-2-58 + corr. December	2004 ²⁾ 2004
IEC 60068-2-64	- ¹⁾	Environmental testing - Part 2: Test methods - Test Fh: Vibration, broad-band random (digital control) and guidance	EN 60068-2-64	1994 ²⁾
IEC 60068-2-78	2001	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	2001
IEC 60469-1	1987	Pulse techniques and apparatus - Part 1: Pulse terms and definitions	-	-
IEC 60617	Data- base	Graphical symbols for diagrams	-	-
IEC 60679-5	- ¹⁾	Quartz crystal controlled oscillators of assessed quality - Part 5: Sectional specification - Qualification approval	EN 60679-5	1998 ²⁾
IEC 61000-4-2	- ¹⁾	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	1995 ²⁾
IECQ 01	- ¹⁾	IEC Quality Assessment System for Electronic Components (IECQ) - Basic Rules	-	-
IEC QC 001002-2	1998	IEC Quality Assessment System for Electronic Components (IECQ) - Rules of Procedure - Part 2: Documentation	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC QC 001002-3	1998	IEC Quality Assessment System for Electronic Components (IECQ) - Rules of Procedure - Part 3: Approval procedures	-	-
ISO 1000	- ¹⁾	SI units and recommendations for the use of their multiples and of certain other units	-	-
ITU-T G.810	- ¹⁾	Definitions and terminology for synchronization networks	-	-
ITU-T G.811	- ¹⁾	Timing characteristics of primary reference clocks	-	-
ITU-T G.812	- ¹⁾	Timing requirements of slave clocks suitable for use as node clocks in synchronization networks	-	-
ITU-T G.813	- ¹⁾	Timing characteristics of SDH equipment slave clocks (SEC)	-	-
ITU-T G.825	- ¹⁾	The control of jitter and wander within digital networks which are based on the synchronous digital hierarchy (SDH)	-	-
ANSI T1.101	- ¹⁾	Synchronization Interface Standard	-	-
ANSI T1.105.03	- ¹⁾	Synchronous Optical Network (SONET) - Jitter at network Interfaces	-	-
ETSI EN 300 462	Series	Transmission and Multiplexing (TM); Generic requirements for synchronization networks	-	-
Telcordia GR-253	- ¹⁾	Synchronous Optical Network (SONET) Transport Systems: Common Generic Criteria	-	-

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INTERNATIONAL STANDARD

IEC 60679-1

Third edition
2007-04

Quartz crystal controlled oscillators of assessed quality –

Part 1: Generic specification

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

QUARTZ CRYSTAL CONTROLLED OSCILLATORS OF ASSESSED QUALITY –

Part 1: Generic specification

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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

This third edition cancels and replaces the second edition published in 1997 and its Amendments 1 (2002) and 2 (2003) and constitutes a technical revision. It represents a step in a revision of all parts of the IEC 60679 series to include the test requirements of the IECQ system. This edition is based on the relevant standards of that system.

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

FDIS	Report on voting
49/769/FDIS	49/776/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.

A list of all parts of the IEC 60679 series, published under the general title *Quartz crystal controlled oscillators of assessed quality*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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QUARTZ CRYSTAL CONTROLLED OSCILLATORS OF ASSESSED QUALITY –

Part 1: Generic specification

1 Scope

This part of IEC 60679 specifies the methods of test and general requirements for quartz crystal controlled oscillators of assessed quality using either capability approval or qualification approval procedures.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60027 (all parts), *Letter symbols to be used in electrical technology*

IEC 60050-561, *International Electrotechnical Vocabulary (IEV) – Part 561: Piezoelectric devices for frequency control and selection*

IEC 60068-1:1988, *Environmental testing – Part 1: General and guidance*
Amendment 1 (1992)

<https://standards.iteh.ai/catalog/standards/sist/3773c2cf-0ff7-46f9-bec0-54c573369aa/sist-en-60679-1-2008>

IEC 60068-2-1, *Environmental testing – Part 2: Tests – Tests A: Cold*

IEC 60068-2-2, *Environmental testing – Part 2: Tests – Tests B: Dry heat*

IEC 60068-2-6, *Environmental testing – Part 2: Tests – Test Fc: Vibration (sinusoidal)*

IEC 60068-2-7, *Environmental testing – Part 2: Tests – Test Ga and guidance: Acceleration, steady state*

IEC 60068-2-10, *Environmental testing – Part 2-10: Tests – Test J and guidance: Mould growth*

IEC 60068-2-13, *Environmental testing – Part 2: Tests – Test M: Low air pressure*

IEC 60068-2-14, *Environmental testing – Part 2: Tests – Test N: Change of temperature*

IEC 60068-2-17, *Environmental testing – Part 2: Tests – Test Q: Sealing*

IEC 60068-2-20, *Environmental testing – Part 2: Tests – Test T: Soldering*

IEC 60068-2-21, *Environmental testing – Part 2-21: Tests – Test U: Robustness of terminations and integral mounting devices*

IEC 60068-2-27, *Environmental testing – Part 2: Tests – Test Ea and guidance: Shock*

IEC 60068-2-29, *Environmental testing – Part 2: Tests – Test Eb and guidance: Bump*