



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61019-1:2005

ICS 31.140

**SURFACE ACOUSTIC WAVE (SAW)
RESONATORS PART 1: GENERIC
SPECIFICATION (IEC 61019-1:2004)**

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EUROPEAN STANDARD

EN 61019-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2005

ICS 31.140

English version

Surface acoustic wave (SAW) resonators
Part 1: Generic specification
(IEC 61019-1:2004)

Résonateurs à ondes acoustiques
de surface (OAS)
Partie 1: Spécification générique
(CEI 61019-1:2004)

Oberflächenwellenresonatoren
(OFW-Resonatoren)
Teil 1: Fachgrundspezifikation
(IEC 61019-1:2004)

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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.

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 Central Secretariat has the same status as the official versions.

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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

Foreword

The text of document 49/689/FDIS, future edition 1 of IEC 61019-1, 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 61019-1 on 2004-12-01.

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) | 2005-09-01 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2007-12-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61019-1:2004 was approved by CENELEC as a European Standard without any modification.

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 Where 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	HD 60027 HD 245	Series
IEC 60050-561	1991	International Electrotechnical Vocabulary (IEV) Chapter 561: Piezoelectric devices for frequency control and selection	-	-
IEC 60068-1	1988	Environmental testing Part 1: General and guidance	EN 60068-1 ¹⁾	1994
IEC 60068-2-1	1990	Part 2: Tests - Tests A: Cold	EN 60068-2-1	1993
IEC 60068-2-2	1974	Part 2: Tests - Tests B: Dry heat	EN 60068-2-2 ²⁾	1993
IEC 60068-2-6 + corr. March	1995 1995	Part 2: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	1995
IEC 60068-2-7	1983	Part 2: Tests - Test Ga: Acceleration, steady state	EN 60068-2-7 ³⁾	1993
IEC 60068-2-13	1983	Part 2: Tests - Test M: Low air pressure	EN 60068-2-13	1999
IEC 60068-2-14	1984	Part 2: Tests - Test N: Change of temperature	EN 60068-2-14 ⁴⁾	1999
IEC 60068-2-17	1994	Part 2: Tests - Test Q: Sealing	EN 60068-2-17	1994
IEC 60068-2-20	1979	Part 2: Tests - Test T: Soldering	HD 323.2.20 S3 ⁵⁾	1988
IEC 60068-2-21	1999	Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices	EN 60068-2-21	1999

¹⁾ EN 60068-1 includes Corrigendum October 1988 + A1:1992 to IEC 60068-1.

²⁾ EN 60068-2-2 includes supplement A:1976 to IEC 60068-2-2.

³⁾ EN 60068-2-7 includes A1:1986 to IEC 60068-2-7.

⁴⁾ EN 60068-2-14 includes A1:1986 to IEC 60068-2-14.

⁵⁾ HD 323.2.20 S3 includes A2:1987 to IEC 60068-2-20.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-27	1987	Part 2: Tests - Test Ea and guidance: Shock	EN 60068-2-27	1993
IEC 60068-2-29 + Corrigendum	1987	Part 2: Tests - Test Eb and guidance: Bump	EN 60068-2-29	1993
IEC 60068-2-30	1980	Part 2: Tests - Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle)	EN 60068-2-30 ⁶⁾	1999
IEC 60068-2-32	1975	Part 2: Tests - Test Ed: Free fall (Procedure 1)	EN 60068-2-32 ⁷⁾	1993
IEC 60068-2-45	1980	Part 2: Tests - Test Xa and guidance: Immersion in cleaning solvents	EN 60068-2-45	1992
IEC 60068-2-52	1996	Part 2: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	EN 60068-2-52	1996
IEC 60068-2-58	1999	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 ⁸⁾	1999
IEC 60068-2-64 + Corr. October	1993 1993	Part 2: Test methods - Test Fh: Vibration, broad-band random (digital control) and guidance	EN 60068-2-64	1994
IEC 60068-2-78	2001	Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	2001
IEC 60617	database	Graphical symbols for diagrams	-	-
IEC 60122-1	2002	Quartz crystal units of assessed quality Part 1: Generic specification	EN 60122-1	2002
IEC 60444	Series	Measurement of quartz crystal unit parameters	EN 60444	Series
IEC 61000-4-2	1995	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	1995
IEC 61019-2	1995	Surface acoustic wave (SAW) resonators Part 2: Guide to the use	EN 61019-2	1997
IEC 61019-3	1991	Part 3: Standard outlines and lead connections	-	-

⁶⁾ EN 60068-2-30 includes A1:1985 to IEC 60068-2-30.

⁷⁾ EN 60068-2-32 includes A2:1990 to IEC 60068-2-32.

⁸⁾ EN 60068-2-58 is superseded by EN 60068-2-58:2004, which is based on IEC 60068-2-58:2004.

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