



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 168000:1994

ICS 31.140

**QUARTZ CRYSTAL UNITS (GENERIC
SPECIFICATION) (INCLUDES AMENDMENT
A1:1993)**

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*This Irish Standard was
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authority of the National
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effect on:*

November 18, 1994

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 168 000

March 1993

+ A1

March 1993

UDC

Supersedes CECC 68 000 Issue 1 : 1989

Descriptors: Quality, electronic components, quartz crystal units

English version

Generic Specification:
Quartz Crystal Units
(Includes Amendment A1 : 1993)

Spécification générique:
Résonateurs à quartz
(Inclut l'amendement A1 : 1993)

Fachgrundspezifikation:
Schwingquarze
(Einschließlich Änderung
A1 : 1993)

This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 14 January 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

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 document CECC 68 000 Issue 1 : 1989 (with A1) and CECC(Secretariat)2851 was submitted to the formal vote for conversion to a European Standard; together with the voting report, circulated as document CECC(Secretariat)2961 it was approved by CECC as EN 168 000 on 14 January 1992.

The following dates were fixed:

- | | | |
|---|-------|-------------------|
| - latest date of announcement of the EN at national level | (doa) | 1992-12-08 |
| - latest date of publication of an identical national standard | (dop) | 1993-06-08 |
| - latest date of declaration of national standards obsolescence | | 1993-06-08 |
| - latest date of withdrawal of conflicting national standards | (dow) | 2002-12-08 |

<p>Cette page bleue doit être insérée après la page de garde de la CECC 68 000 (Edition 1) 1989</p>	<p>This blue page should be inserted after the title page of CECC 68 000 (Issue 1) 1989</p>	<p>Dieses blaue Blatt ist nach dem Titelblatt der CECC 68 000 (Ausgabe 1) 1989 einzufügen</p>
<p>MODIFICATION 1 A LA CECC 68 000 SPECIFICATION GENERALE: RESONATEURS A QUARTZ</p>	<p>AMENDMENT 1 TO CECC 68 000 GENERIC SPECIFICATION: QUARTZ CRYSTAL UNITS</p>	<p>ÄNDERUNG 1 ZU CECC 68 000 FACHGRUNDSPEZIFIKATION: SCHWINGQUARZE</p>
<p>Remplacer les pages 20/21 et 22/23 par les nouvelles pages; (introduction des paragraphes 4.1.1 et 4.1.2). Enregistrer cette modification sur la feuille jaune "Enregistrement des modifications". Le texte de cette modification a été soumis au vote du CECC dans le document indiqué ci-dessous et a été ratifié par le président du CECC pour être publié.</p>	<p>Remove pages 20/21 and 22/23 and insert amended pages; (introduction of sub-clauses 4.1.1 and 4.1.2). Enter this amendment on the yellow "Record of amendments" sheet. The text of this amendment was circulated to the CECC for voting in the document indicated below and was ratified by the President of the CECC for publication.</p>	<p>Die Seiten 24/25 sind durch die neuen Seiten 24/25 zu ersetzen; (Einführung der Abschnitte 4.1.1 und 4.1.2). Diese Änderung ist auf dem gelben Blatt "Verzeichnis der Änderungen" einzutragen. Der Text dieser Änderung wurde dem CECC mit dem unten aufgeführten Schriftstück zur Abstimmung vorgelegt und vom Präsidenten des CECC zur Veröffentlichung freigegeben.</p>
<p>Document: CECC(Sekretariat)2535 Date de vote: Mai 1990 Rapport de vote: CECC(Sekretariat)2655</p>	<p>Document: CECC(Secretariat)2535 Date of voting: May 1990 Report on the voting: CECC(Secretariat)2655</p>	<p>Schriftstück: CECC(Sekretariat)2535 Abstimmungsdatum: Mai 1990 Abstimmbericht: CECC(Sekretariat)2655</p>
<p>CECC 68 000 Edition 1 Modification 1 (1991)</p>	<p>CECC 68 000 Issue 1 Amendment 1 (1991)</p>	<p>CECC 68 000 Ausgabe 1 Änderung 1 (1991)</p>

3.9 Screening requirements

Where screening is required by the customer for quartz crystal units this shall be specified in the detail specification.

3.10 Rework and repair work

3.10.1 Rework

Rework is the rectification of processing errors and shall not be carried out if prohibited by the sectional specification. The sectional specification shall state if there is a restriction on the number of occasions that rework may take place on a specific component.

All rework shall be carried out prior to the formation of the inspection lot offered for inspection to the requirements of the detail specification.

Such rework procedures shall be fully described in the relevant documentation produced by the manufacturer and shall be carried out under the direct control of the Chief Inspector. Sub-contracting of rework is not permitted.

3.10.2 Repair work

Repair work is the correction of defects in a component after release to the customer.

Components that have been repaired can no longer be considered as representative of the manufacturer's production and may not be released under the CECC system.

3.11 Certified test records

The requirements of §2 of CECC 00 109 shall apply. When certified test records (RCE) are prescribed in the sectional specification for qualification approval and are requested by the customer the results of the specified tests shall be summarised.

3.12 Delayed delivery

Crystal units held for a period exceeding two years following acceptance inspection shall be reinspected for the electrical tests detailed in 4.7.1 and 4.7.3, with a sample tested as described in 4.8.3(1), prior to release.

3.13 Release for delivery

Quartz crystal units shall be released in accordance with §14 of CECC 00 107 Part I.

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