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PIEZOELECTRIC AND DIELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION – GLOSSARY –

Part 1: Piezoelectric and dielectric resonators

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IEC 61994-1, which is a technical specification, has been prepared by IEC technical committee 49: Piezoelectric and dielectric devices for frequency control and selection.

This second edition of IEC 61994-1 cancels and replaces the first edition published in 2003. This edition constitutes a technical revision.

The main changes with respect to the previous edition are listed below:

– definitions updated;
– terminology given in orderly sequence;

– drawings inserted for easier understanding.

The text of this technical specification is based on the following documents:

Enquiry draft	Report on voting
49/761/DTS	49/766/RVC

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

This publication has been drafted in accordance with the IS0/IEC Directives, Part 2.

IEC 61994 consists of the following parts under the general title: *Piezoelectric and dielectric devices for frequency control and selection – Glossary*:

— Part 1: Piezoelectric and dielectric resonators

— Part 2: Piezoelectric and dielectric filters

— Part 3: Piezoelectric oscillators

— Part 4-1: Piezoelectric materials – Synthetic quartz crystal

— Part 4-2: Piezoelectric and dielectric materials – Piezoelectric ceramics

— Part 4-3: Materials for dielectric devices[1]

— Part 4-4: Materials – Materials for Surface Acoustic Wave (SAW) devices

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

- transformed into an international standard;
- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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

[1] To be published.

PIEZOELECTRIC AND DIELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION – GLOSSARY –

Part 1: Piezoelectric and dielectric resonators

1 Scope

This technical specification gives the terms and definitions for piezoelectric and dielectric resonators representing the present state-of-the-art, which are intended for use in the standards and documents of IEC technical committee 49.

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 60050(561):1991, *International Electrotechnical Vocabulary (IEV) – Chapter 561: Piezoelectric devices for frequency control and selection*
Amendment 1 (1995)

IEC 60122-1:2002, *Quarts crystal units of assessed quality – Part-1: Generic specification*

IEC 60642:1979, *Piezoelectric ceramic resonators and resonator units for frequency control and selection – Chapter I: Standard values and conditions – Chapter II: Measuring and test conditions*

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

IEC 61338-1:2004, *Waveguide type dielectric resonators – Part 1: Generic specification*