

<b>STN</b>	<b>Meracie metódy na piezoelektrických, dielektrických a elektrostatických oscilátoroch Časť 3: Frekvenčné starnutie - skúšobné metódy</b>	<b>STN EN IEC 62884-3</b>  35 8435
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Measurement techniques of piezoelectric, dielectric and electrostatic oscillators Part 3: Frequency aging test methods

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/19

Obsahuje: EN IEC 62884-3:2018, IEC 62884-3:2018

**127827**

EUROPEAN STANDARD

**EN IEC 62884-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2018

ICS 31.140

English Version

**Measurement techniques of piezoelectric, dielectric and electrostatic oscillators - Part 3: Frequency aging test methods (IEC 62884-3:2018)**

Techniques de mesure des oscillateurs piézoélectriques, diélectriques et électrostatiques – Partie 3 : Méthodes d'essai de vieillissement en fréquence  
(IEC 62884-3:2018)

Messverfahren für piezoelektrische, dielektrische und elektrostatische Oszillatoren - Teil 3: Prüfverfahren für die Frequenzalterung  
(IEC 62884-3:2018)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 62884-3:2018 (E)****European foreword**

The text of document 49/1248/CDV, future edition 1 of IEC 62884-3, prepared by IEC/TC 49 "Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62884-3:2018.

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IEC 60068-1	NOTE	Harmonized as EN 60068-1.
IEC 60068-2-14	NOTE	Harmonized as EN 60068-2-14.
IEC 60679-4	NOTE	Harmonized as EN 60679-4.
IEC 60679-5	NOTE	Harmonized as EN 60679-5.
IEC 61760-1	NOTE	Harmonized as EN 61760-1.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<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 -- Part 1: General	EN 60027	series
IEC 60050-561	-	International Electrotechnical Vocabulary (IEV) -- Chapter 561: Piezoelectric devices for frequency control and selection	-	-
IEC 60469	-	Transitions, pulses and related waveforms - Terms, definitions and algorithms	EN 60469	-
IEC 60617	-	Standard data element types with associated classification scheme for electric components -- Part 4: IEC reference collection fo standard data element types and component classes	-	-
IEC 60679-1	-	Piezoelectric, dielectric and electrostatic oscillators of assessed quality - Part 1 : Generic specification	EN 60679-1	-
IEC 62884-1	2017	Measurement techniques of piezoelectric, dielectric and electrostatic oscillators - Part 1: Basic methods for the measurement	EN 62884-1	2017
ISO 80000-1	-	Quantities and units -- Part 1: General	EN ISO 80000-1	-



**IEC 62884-3**

Edition 1.0 2018-03

# **INTERNATIONAL STANDARD**

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**Measurement techniques of piezoelectric, dielectric and electrostatic  
oscillators –  
Part 3: Frequency aging test methods**





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IEC 62884-3

Edition 1.0 2018-03

# INTERNATIONAL STANDARD

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**Measurement techniques of piezoelectric, dielectric and electrostatic  
oscillators –  
Part 3: Frequency aging test methods**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ICS 31.140

ISBN 978-2-8322-5494-3

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MEASUREMENT TECHNIQUES OF PIEZOELECTRIC,  
DIELECTRIC AND ELECTROSTATIC OSCILLATORS –****Part 3: Frequency aging test methods**

## FOREWORD

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International Standard IEC 62884-3 has been prepared by IEC technical committee 49: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection.

The text of this International Standard is based on the following documents:

CDV	Report on voting
49/1248/CDV	49/1272/RVC

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62884 series, published under the general title *Measurement techniques of piezoelectric, dielectric and electrostatic oscillators*, can be found on the IEC website.

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

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

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

## INTRODUCTION

This document was developed from the works related to IEC 60679-1:2007 (third edition), the measurement techniques of which were restructured into different parts under a new project reference. This document describes the measurement method for frequency aging only.

# MEASUREMENT TECHNIQUES OF PIEZOELECTRIC, DIELECTRIC AND ELECTROSTATIC OSCILLATORS –

## Part 3: Frequency aging test methods

### 1 Scope

This part of IEC 62884 describes the methods for the measurement and evaluation of frequency aging tests of piezoelectric, dielectric and electrostatic oscillators, including Dielectric Resonator Oscillators (DRO) and oscillators using FBAR (hereinafter referred to as "Oscillator"). The purpose of those tests is to provide statistical data supporting aging predictions.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 – Part 561: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection*

IEC 60469, *Transitions, pulses and related waveforms – Terms, definitions and algorithms*

IEC 60617, *Graphical symbols for diagrams*, available at <http://std.iec.ch/iec60617>

IEC 60679-1, *Piezoelectric, dielectric and electrostatic oscillators of assessed quality – Part 1: Generic specification*

IEC 62884-1:2017, *Measurement techniques of piezoelectric, dielectric and electrostatic oscillators – Part 1: Basic methods for the measurement*

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