



NSAI
Standards

Irish Standard
I.S. EN IEC 60122-4:2019

Quartz crystal units of assessed quality - Part 4: Crystal units with thermistors

I.S. EN IEC 60122-4:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN IEC 60122-4:2019 is the adopted Irish version of the European Document EN IEC 60122-4:2019, Quartz crystal units of assessed quality - Part 4: Crystal units with thermistors

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EUROPEAN STANDARD

EN IEC 60122-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2019

ICS 31.140

English Version

**Quartz crystal units of assessed quality - Part 4: Crystal units
with thermistors
(IEC 60122-4:2019)**

Résonateurs à quartz sous assurance de la qualité - Partie
4: Résonateurs à quartz équipés de thermistances
(IEC 60122-4:2019)

Schwingquarze mit bewerteter Qualität - Teil 4:
Schwingquarze mit Thermistoren
(IEC 60122-4:2019)

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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 60122-4:2019 (E)

European foreword

The text of document 49/1281/CDV, future edition 1 of IEC 60122-4, 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 60122-4:2019.

The following dates are fixed:

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

IEC 61240:2016	NOTE	Harmonized as EN 61240:2017 (not modified)
IEC 61760 (series)	NOTE	Harmonized as EN 61760-4:2015/A1 (series)
IEC 61837 (series)	NOTE	Harmonized as EN 61837 (series)

Annex ZA

(normative)

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<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 IEC 60027	series
IEC 60050-561	-	International Electrotechnical Vocabulary - Part 561: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection	-	-
IEC 60068	series	Environmental testing	EN IEC 60068-3	series
IEC 60122-1	2002	Quartz crystal units of assessed quality - Part 1: Generic specification	EN 60122-1	2002
+ A1	2017		+ A1	2018
IEC 60122-2-1	-	Quartz crystal units for frequency control and selection - Part 2: Guide to the use of quartz crystal units for frequency control and selection - Section One: Quartz crystal units for microprocessor clock supply	-	-
IEC 60444-1	-	Measurement of quartz crystal unit parameters by zero phase technique in a pi-network - Part 1: Basic method for the measurement of resonance frequency and resonance resistance of quartz crystal units by zero phase technique in a pi-network	EN 60444-1	-
IEC 60444-5	-	Measurement of quartz crystal units parameters - Part 5: Methods for the determination of equivalent electrical parameters using automatic network analyzer techniques and error correction	EN 60444-5	-
IEC 60444-9	-	Measurement of quartz crystal unit parameters - Part 9: Measurement of spurious resonances of piezoelectric crystal units	EN 60444-9	-
IEC 60539-1	2016	Directly heated negative temperature coefficient thermistors - Part 1: Generic specification	EN 60539-1	2016
IEC 60617	series	Graphical symbols for diagrams (available at http://std.iec.ch/iec60617)	-	-
IEC 63041-1	-	Piezoelectric sensors - Part 1: Generic specifications	EN IEC 63041-1	-
ISO 80000	series	Quantities and units	EN ISO 80000	series

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IEC 60122-4

Edition 1.0 2019-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Quartz crystal units of assessed quality –
Part 4: Crystal units with thermistors**

**Résonateurs à quartz sous assurance de la qualité –
Partie 4: Résonateurs à quartz équipés de thermistances**



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IEC 60122-4

Edition 1.0 2019-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Quartz crystal units of assessed quality –
Part 4: Crystal units with thermistors**

**Résonateurs à quartz sous assurance de la qualité –
Partie 4: Résonateurs à quartz équipés de thermistances**

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QUARTZ CRYSTAL UNITS OF ASSESSED QUALITY –**Part 4: Crystal units with thermistors****FOREWORD**

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

CDV	Report on voting
49/1281/CDV	49/1291/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.

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QUARTZ CRYSTAL UNITS OF ASSESSED QUALITY –

Part 4: Crystal units with thermistors

1 Scope

This part of IEC 60122 is applicable to crystal units with thermistors mainly used in the field of mobile communication that requires high frequency stability such as local reference signal generator for the mobile phone base station or GPS. This document provides users with technical guidelines of crystal units with thermistors as well as basic knowledge of common crystal units with thermistors.

2 Normative references

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IEC 60068 (all parts), *Environmental testing*

IEC 60122-1:2002, *Quartz crystal units of assessed quality – Part 1: Generic specification*
IEC 60122-1:2002/AMD1:2017

IEC 60122-2-1, *Quartz crystal units for frequency control and selection – Part 2: Guide to the use of quartz crystal units for frequency control and selection – Section One: Quartz crystal units for microprocessor clock supply*

IEC 60444-1, *Measurement of quartz crystal unit parameters by zero phase technique in a pi-network – Part 1: Basic method for the measurement of resonance frequency and resonance resistance of quartz crystal units by zero phase technique in a pi-network*

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