

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

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

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I.S. EN IEC 60122-4:2019

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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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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.

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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)

Normative references to international publications with their corresponding European publications

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<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 Central Office Tel.: +41 22 919 02 11

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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

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CONTENTS

FC	REWO	RD	3
1	Scop	e	5
2	Norm	ative references	5
3	Term	s, definitions, units and symbols	6
	3.1	Terms and definitions	
	3.2	Units and symbols	
4	Spec	ifications	6
	4.1	General	6
	4.2	Structure of crystal units with thermistors	7
	4.3	Handling of the thermistor	7
	4.4	Shipping requirements	7
5	Deliv	ery conditions	8
6	Qual	ty and reliability	8
Αn	nex A (informative) Effect of frequency stability using crystal units with thermistors	9
	A.1	Object	9
	A.2	Comparison of conventional crystal units with crystal units with thermistors	9
	A.3	Verification test of crystal units with thermistors	10
	A.3.1	Test condition	10
	A.3.2		
	A.4	Example of crystal units with thermistors	
	A.4.1		
	A.4.2		
Bik	oliograp	hy	14
		- Block diagrams of the quartz crystal units	
		I – Conventional crystal oscillator with thermistor	
		2 – Conceptual diagram for crystal units with thermistors	
Fig	gure A.3	B – Test condition	11
Fig	gure A.4	4 – Test result	12
Fiç	gure A.	5 – Crystal units with thermistors inside enclosure (side view)	13
Fiç	gure A.6	6 – Crystal units with thermistors outside enclosure (side view)	13
		7 – Typical example of crystal units with thermistors – Terminal functions	

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- 3 -

INTERNATIONAL ELECTROTECHNICAL COMMISSION

QUARTZ CRYSTAL UNITS OF ASSESSED QUALITY -

Part 4: Crystal units with thermistors

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International Standard IEC 60122-4 has been prepared by IEC technical committee TC 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
49/1281/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.

A list of all parts in the IEC 60122 series, published under the general title *Quartz crystal units* of assessed quality, can be found on the IEC website.

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– 4 –

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- 5 -

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 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 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 pinetwork – Part 1: Basic method for the measurement of resonance frequency and resonance resistance of quartz crystal units by zero phase technique in a pinetwork

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IEC 60539-1:2016, Directly heated negative temperature coefficient thermistors – Part 1: Generic specification

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