

SLOVENSKI STANDARD SIST EN 60679-3:2013

01-september-2013

Nadomešča:

SIST EN 60679-3:2002

Kristalni oscilatorji ocenjene kakovosti - 3. del: Standardni okrovi in priključki

Quartz crystal controlled oscillators of assessed quality - Part 3: Standard outlines and lead connections

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Oscillateurs pilotés par quartz sous assurance de la qualité - Partie 3: Encombrements normalisés et connexions des sorties

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Ta slovenski standard je istovetenez:5B7/siEN-60679-3:2013

ICS:

31.140 Piezoelektrične in

Piezoelectric and dielectric

dielektrične naprave

devices

SIST EN 60679-3:2013

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<u>SIST EN 60679-3:2013</u> https://standards.iteh.ai/catalog/standards/sist/05e1dd4f-61cc-45de-9063-b33d8e925f37/sist-en-60679-3-2013 **EUROPEAN STANDARD**

EN 60679-3

NORME EUROPÉENNE EUROPÄISCHE NORM

July 2013

ICS 31.140

Supersedes EN 60679-3:2001

English version

Quartz crystal controlled oscillators of assessed quality - Part 3: Standard outlines and lead connections

(IEC 60679-3:2012)

Oscillateurs pilotés par quartz sous assurance de la qualité - Partie 3: Encombrements normalisés et connexions des sorties (CEI 60679-3:2012)

Quarzoszillatoren mit bewerteter Qualität -Teil 3: Norm-Gehäusemaße und Anschlussdrähte (IEC 60679-3:2012)

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5f37/sist-en-6067

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CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 49/1009/FDIS, future edition 3 of IEC 60679-3, 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 60679-3:2013.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2014-01-12
•	latest date by which the national	(dow)	2016-01-18

latest date by which the national (dow) standards conflicting with the document have to be withdrawn

This document supersedes EN 60679-3:2001.

EN 60679-3:2013 includes the following significant technical changes with respect to EN 60679-3:2001:

- CO 01, CO 07, CO 10, CO 17 and CO 18 were deleted;
- the current pin layout of CO 06 was deleted;
- new pin layout of CO 06 was added as CO 40;
- new layout of CO 15 was added as CO 41. ARD PREVIEW
- two new enclosures, CO 42 and CO43 were added.iteh.ai)

Therefore revised edition includes 15 types of enclosures as in Table 1 of Clause 5.

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Endorsement notice

The text of the International Standard IEC 60679-3:2012 was approved by CENELEC as a European Standard without any modification.

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

IEC 60679-1:2007	NOTE	Harmonised as EN 60679-1:2007 (not modified).
IEC 60679-4:1997	NOTE	Harmonised as EN 60679-4:1998 (not modified).
IEC 60679-4-1:1998	NOTE	Harmonised as EN 60679-4-1:1998 (not modified).
IEC 60679-5:1998	NOTE	Harmonised as EN 60679-5:1998 (not modified).
IEC 60679-5-1:1998	NOTE	Harmonised as EN 60679-5-1:1998 (not modified).
ISO 1101	NOTE	Harmonised as EN ISO 1101.



IEC 60679-3

Edition 3.0 2012-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Quartz crystal controlled oscillators of assessed quality—W Part 3: Standard outlines and lead connections

Oscillateurs pilotés par quartz sous assurance de la qualité – Partie 3: Encombrements normalisés et connexions des sorties

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

PRICE CODE
CODE PRIX

T

ICS 31.140

ISBN 978-2-83220-569-3

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

QUARTZ CRYSTAL CONTROLLED OSCILLATORS OF ASSESSED QUALITY –

Part 3: Standard outlines and lead connections

FOREWORD

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International Standard IEC 60679-3 has been prepared by IEC technical committee 49: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection.

This third edition cancels and replaces the second edition issued in 2001. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- CO 01, CO 07, CO 10, CO 17 and CO 18 were deleted;
- The current pin layout of CO 06 was deleted. And new pin layout of CO 06 was added as CO 40;
- New layout of CO 15 was added as CO 41;
- Two new enclosures, CO 42 and CO 43 were added.

Therefore revised edition includes 15 types of enclosures as in Table 1 of Clause 5.

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The text of this standard is based on the following documents:

FDIS	Report on voting
49/1009/FDIS	49/1021/RVD

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

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

A list of all parts of the IEC 60679 series, published under the general title *Quartz crystal controlled oscillators of assessed quality*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability 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

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

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QUARTZ CRYSTAL CONTROLLED OSCILLATORS OF ASSESSED QUALITY -

Part 3: Standard outlines and lead connections

Scope

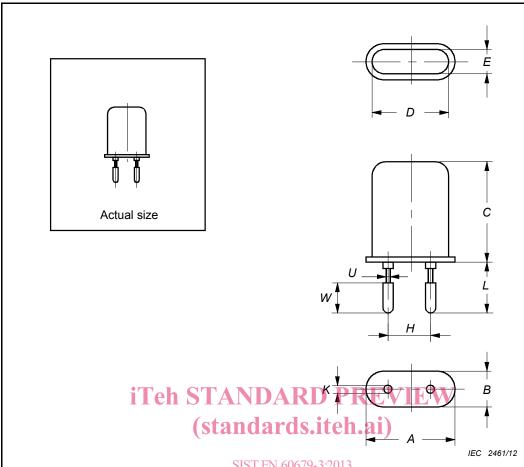
This part of IEC 60679 specifies the outline dimensions and lead connections for quartz crystal controlled oscillators with lead enclosures.

Guidance for the standardization of outline drawings for frequency control and selection devices

In order to achieve a uniform presentation of outline drawings for frequency control and selection devices, the following shall be considered.

- a) An outline drawing shall show all dimensional and geometrical characteristics of an enclosure necessary to ensure mechanical interchangeability with all other enclosures of the same outline. Enlarged and detailed view may be used, if necessary.
- b) The outline drawing shall consist of three parts:) PRFVIEW
 - 1) A drawing with dimensional symbols (capital letter) as shown in Figure 1 with applicable footnotes, if necessary. (Standards.Iten.al)
 - 2) A tabular listing relating to the drawing symbol to the actual dimensions. Where possible, this shall be shown on the same page as the drawing.

 https://standards.iteh.ai/catalog/standards/sist/05e1dd4f-61cc-45de-9063sketch (scale 1:1)
 33/d8e923i37/sist-en-60679-3-2013
- c) The outline drawing shall be executed in the third-angle projection.
- d) The function and identification of the lead connections (termination) shall be determined by agreement between the supplier and user. They shall not be defined on the outline drawing.
- e) Descriptive footnotes may be used at the bottom of/ or adjacent to, the drawing with proper reference to the body of the drawing.
- f) All dimensions shall be in millimeters.
- q) Outline dimensions A, B, C, D and E shall be listed with maximum values only.
- h) If there are plural identical enclosures with different height (C), C shall be expressed with a suffix number such as C_1 , C_2 , etc. The following letter and number after the basic type number (four digits) indicate the enclosure height and lead length. The identity references are given in the table in the sheet.
- i) Lead (termination) cross-sectional dimensions shall be listed with minimum and maximum values. If applicable, nominal dimensions may be added.
- j) The spacing of the leads (termination) symbol H shall be listed with minimum, nominal and maximum dimensions.



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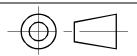
Dimensions (mm) Ref. **Footnotes** Min. Nom. Max. Χ Α В Χ Χ Χ D Ε Χ Χ Н Χ Χ Χ Χ Κ _ 1 L Χ Χ U Х 2 W Χ 2

1

2

Figure 1 – Guidance	for outline drawings
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Scale 2:1



Sheet - number

-7-

k) Leads (terminations) for soldering application shall be specified with the minimum length dimensions (symbol *L*) only.

Lead (termination) for plug-in application shall be specified with minimum and maximum length dimensions.

I) If leads (terminations) are provided with an undercut, dimensions U and W shall be listed with minimum dimensions only.

3 Dimensions of crystal oscillator enclosure

The dimensions in this standard apply to the completed quartz crystal controlled oscillators.

Only those dimensions which meet the requirements of the guidance for standardization of outline drawings are given (see Clause 2).

4 Lead connections

Recommendations for the lead connections of quartz crystal controlled oscillators are given in Annex A to this standard. Lead connections shall always be given in the detail specification.

5 Designation of crystal oscillator enclosure

Table 1 – Designation of crystal oscillator enclosures

Sheet No. Description No. Type CO 02 A1 1 Metal enclosure, welded, 4 to 18 lead crystal oscillator outline Sheet 1 CO 02 B1 2 CO 05 B1 Sheet 2 Metal enclosure; welded, eight-lead crystal oscillator outline CO 08 A1 3 CO 08 B1 Sheet 3 Metal enclosure, five lead crystal oscillator outline CO 08 C1 CO 09 A1 4 Sheet 4 Metal enclosure, five lead crystal oscillator outline CO 09 B1 CO 15 B1 5 Sheet 5 Metal enclosure, five lead crystal oscillator outline CO 15 C1 CO 16 A1 CO 16 B1 Metal enclosure, four lead crystal oscillator outline 6 Sheet 6 CO 16 C1 CO 19 A1 7 Sheet 7 Metal enclosure, five lead crystal oscillator outline CO 19 B1 R CO 21 A1 Sheet 8 Metal enclosure, welded, four lead crystal oscillator outline Plastic, moulded or ceramic, solder-glass sealed eight lead crystal oscillator 9 CO 22 A1 Sheet 9 outline CO 23 B1 Sheet 10 10 Metal enclosure, welded, eight lead crystal oscillator outline CO 24 A1 11 Sheet 11 Metal enclosure, four lead crystal oscillator outline CO 40 Sheet 12 12 Metal enclosure, five lead crystal oscillator outline CO 41 A1 13 Sheet 13 Metal enclosure, four lead crystal oscillator outline CO 41 B1 CO 42 14 Sheet 14 Metal enclosure, four lead crystal oscillator outline CO 43 A1 15 CO 43 B1 Sheet 15 Metal enclosure, five lead crystal oscillator outline CO 43 C1