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Irish Standard
I.S. EN 61837-2:2011&A1:2014

Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections -- Part 2: Ceramic enclosures

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EN 61837-2:2011/A1:2014

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This document is based on:	*Published:*
EN 61837-2:2011	2011-07-08

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2014-06-24	31.140
	NOTE: If blank see CEN/CENELEC cover page

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61837-2:2011/A1

May 2014

ICS 31.140

English Version

Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 2: Ceramic enclosures (IEC 61837-2:2011/A1:2014)

Dispositifs piézoélectriques à montage en surface pour la commande et le choix de la fréquence - Encombrements normalisés et connexions des sorties - Partie 2: Enveloppes en céramique (CEI 61837-2:2011/A1:2014)

Oberflächenmontierbare piezoelektrische Bauteile zur Frequenzstabilisierung und -selektion - Norm-Gehäusemaße und Anschlüsse - Teil 2: Keramikgehäuse (IEC 61837-2:2011/A1:2014)

This amendment A1 modifies the European Standard EN 61837-2:2011; it was approved by CENELEC on 2014-04-18. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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Ref. No. EN 61837-2:2011/A1:2014 E

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Foreword

The text of document 49/1078/CDV, future edition 2 of IEC 61837-2:2011/A1, 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 61837-2:2011/A1:2014.

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)	2015-01-18
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2017-04-18

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61837-2

July 2011

ICS 31.140

Supersedes EN 61837-2:2000

English version

Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 2: Ceramic enclosures

(IEC 61837-2:2011)

Dispositifs piézoélectriques à montage en surface pour la commande et le choix de la fréquence - Encombrements normalisés et connexions des sorties - Partie 2: Enveloppes en céramique (CEI 61837-2:2011)

Oberflächenmontierbare piezoelektrische Bauteile zur Frequenzstabilisierung und -selektion - Norm-Gehäusemaße und Anschlüsse - Teil 2: Keramikgehäuse (IEC 61837-2:2011)

This European Standard was approved by CENELEC on 2011-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

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Ref. No. EN 61837-2:2011 E

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Foreword

The text of document 49/884/CDV, future edition 2 of IEC 61837-2, 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 was approved by CENELEC as EN 61837-2 on 2011-07-01.

This European Standard supersedes EN 61837-2:2000.

In EN 61837-2:2011, types of enclosures are renamed to express their features in their names for better understanding. The relative comparison of new types with old ones is listed in Table. 1. New names of enclosures express configuration type, terminal lead numbers, sizes and arrangement of terminal pads. The details of definition are shown in Clause 3: Configuration of enclosures, and Clause 4: Designation of types.

Enclosures in EN 61837-2:2011 are based on EN 61240. In EN 61837-2:2011, 27 enclosures are added to EN 61837-2:2000, as follows:

QCC-12/1407A, DCC-2/1206A, QCC-10/9272A, DCC-4/9070A, DCC-2-8045B, DCC-6/7834B, DCC-6/7050A, QCC-10/7050A, DCC-4/6035C, DCC-2/6035C, QCC-8/5045A, DCC-4/5032A, DCC-4/5032C, DCC-2/4818C, DCC-2/4115C, QCC-8/3838A, DCC-6/3838A, DCC-4/3225C, DCC-2/3215C, QCC-8/3030B, DCC-6/3030A, DCC-6/2520A, DCC-4/2520C, DCC-4/2020C, DCC-4/2016C, DCC-4/1612C, DCC-2/1612C.

As a result, EN 61837-2:2011 contains a total of 38 enclosure types, which are listed in Table 1 – Designation of ceramic enclosures.

This standard is to be read in conjunction with EN 61240.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2012-04-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2014-07-01

Annex ZA has been added by CENELEC.

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The text of the International Standard IEC 61837-2:2011 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 60122-3:2010	NOTE	Harmonized as EN 60122-3:2010 (not modified).
IEC 60191-6:2009	NOTE	Harmonized as EN 60191-6:2009 (not modified).
IEC 60368-1:2000	NOTE	Harmonized as EN 60368-1:2000 (not modified).
IEC 60368-2-2:1996	NOTE	Harmonized as EN 60368-2-2:1999 (not modified).
IEC 60368-3:2001	NOTE	Harmonized as EN 60368-3:2001 (not modified).
IEC 60679-1:2007	NOTE	Harmonized as EN 60679-1:2007 (not modified).
IEC 60679-3:2001	NOTE	Harmonized as EN 60679-3:2001 (not modified).
IEC 60862-1:2003	NOTE	Harmonized as EN 60862-1:2003 (not modified).
IEC 60862-2:2002	NOTE	Harmonized as EN 60862-2:2002 (not modified).
IEC 60862-3:2003	NOTE	Harmonized as EN 60862-3:2003 (not modified).
IEC 61019-1:2004	NOTE	Harmonized as EN 61019-1:2005 (not modified).
IEC 61016-2:2005	NOTE	Harmonized as EN 61016-2:2005 (not modified).
ISO 1101:2004	NOTE	Harmonized as EN ISO 1101:2005 (not modified).

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 61240	-	Piezoelectric devices - Preparation of outline drawings of surface-mounted devices (SMD) for frequency control and selection - General rules	EN 61240	-

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IEC 61837-2

Edition 2.0 2011-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections – Part 2: Ceramic enclosures

Dispositifs piézoélectriques à montage en surface pour la commande et le choix de la fréquence – Encombrements normalisés et connexions des sorties – Partie 2: Enveloppes en céramique

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IEC Central Office
3, rue de Varembé
CH-1211 Geneva 20
Switzerland
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Edition 2.0 2011-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections – Part 2: Ceramic enclosures

Dispositifs piézoélectriques à montage en surface pour la commande et le choix de la fréquence – Encombrements normalisés et connexions des sorties – Partie 2: Enveloppes en céramique

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SURFACE MOUNTED PIEZOELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION – STANDARD OUTLINES AND TERMINAL LEAD CONNECTIONS –

Part 2: Ceramic enclosures

FOREWORD

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International Standard IEC 61837-2 has been prepared by IEC technical committee 49: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection.

This second edition cancels and replaces the first edition published in 2000. It constitutes a technical revision.

In this edition, types of enclosures are renamed to express their features in their names for better understanding. The relative comparison of new types with old ones is listed in Table. 1. New names of enclosures express configuration type, terminal lead numbers, sizes and arrangement of terminal pads. The details of definition are shown in Clause 3: Configuration of enclosures, and Clause 4: Designation of types.

Enclosures in this new edition are based on IEC 61240. In this standard, 27 enclosures are added to the first edition of IEC 61837-2, as follows:

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QCC-12/1407A, DCC-2/1206A, QCC-10/9272A, DCC-4/9070A, DCC-2-8045B, DCC-6/7834B, DCC-6/7050A, QCC-10/7050A, DCC-4/6035C, DCC-2/6035C, QCC-8/5045A, DCC-4/5032A, DCC-4/5032C, DCC-2/4818C, DCC-2/4115C, QCC-8/3838A, DCC-6/3838A, DCC-4/3225C, DCC-2/3215C, QCC-8/3030B, DCC-6/3030A, DCC-6/2520A, DCC-4/2520C, DCC-4/2020C, DCC-4/2016C, DCC-4/1612C, DCC-2/1612C.

As a result, the new version (the second edition) contains a total of 38 enclosure types, which are listed in Table 1 – Designation of ceramic enclosures.

This standard is to be read in conjunction with IEC 61240.

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

CDV	Report on Voting
49/884/CDV	49/908/RVC

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 3.

A list of all parts of the IEC 61837 series, published under the general title: *Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections*, 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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SURFACE MOUNTED PIEZOELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION – STANDARD OUTLINES AND TERMINAL LEAD CONNECTIONS –

Part 2: Ceramic enclosures

1 Scope

This part of IEC 61837 deals with standard outlines and terminal lead connections as they apply to surface-mounted devices (SMD) for frequency control and selection in ceramic enclosures, and is based on IEC 61240.

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 61240, *Piezoelectric devices – Preparation of outline drawings of surface-mounted devices (SMD) for frequency control and selection – General rules*

3 Configuration of enclosures

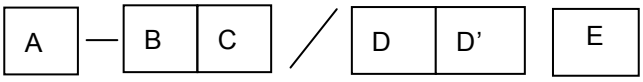
The enclosures of the surface-mounted devices are made of ceramic materials with the terminals of deposited metal film (leadless type) based on descriptive designation system for semiconductors – devices package.

The configuration symbols are shown as follows:

– DCC (dual chip carrier);
– QCC (quad chip carrier).

4 Designation of types

The designation of types is shown on four parts as follows:



A: Configuration symbol of enclosures:

– DCC (dual chip carrier);
– QCC (quad chip carrier).

B: Structure of terminal leads: leadless type has no mark.

C: Number of terminal leads

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