

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 61837-2:2011 sisaldab Euroopa standardi EN 61837-2:2011 ingliskeelset teksti.	This Estonian standard EVS-EN 61837-2:2011 consists of the English text of the European standard EN 61837-2:2011.
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Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 08.07.2011.	Date of Availability of the European standard text 08.07.2011.
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Inglisekeelsed võtmesõnad: case drawing, ceramic envelope, drawings, electrical engineering, electronic equ, electronic equipment and components, enclosures, frequency selection, frequency stabilization, piezoelectric devices, plastics moulding material, smd, surface mounting,

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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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

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

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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.

Endorsement notice

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).

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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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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