



NSAI
Standards

Irish Standard
I.S. EN 60749-11:2002

Semiconductor devices - Mechanical and climatic test methods - Part 11: Rapid change of temperature - Two-fluid-bath method

I.S. EN 60749-11:2002

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

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EUROPEAN STANDARD

EN 60749-11

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 31.080.01

Partly supersedes EN 60749:1999 + A1:2000 + A2:2001

English version

**Semiconductor devices -
Mechanical and climatic test methods
Part 11: Rapid change of temperature -
Two-fluid-bath method
(IEC 60749-11:2002)**

Dispositifs à semiconducteurs -
Méthodes d'essais mécaniques
et climatiques
Partie 11: Variations rapides
de température -
Méthode des deux bains
(CEI 60749-11:2002)

Halbleiterbauelemente -
Mechanische und klimatische
Prüfverfahren
Teil 11: Rascher Temperaturwechsel -
Zweibäderverfahren
(IEC 60749-11:2002)

This European Standard was approved by CENELEC on 2002-07-02. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

EN 60749-11:2002

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Foreword

The text of document 47/1605/FDIS, future edition 1 of IEC 60749-11, prepared by IEC TC 47, Semiconductor devices, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60749-11 on 2002-07-02.

This mechanical and climatic test method, as it relates to rapid change of temperature and two-fluid-bath method, is a complete rewrite of the test contained in 1.2, chapter 3 of EN 60749:1999.

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) 2003-04-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2005-07-01

Annexes designated "normative" are part of the body of the standard.

In this standard, annex ZA is normative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60749-11:2002 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 60749-3	- ¹⁾	Semiconductor devices - Mechanical and climatic test methods Part 3: External visual examination	EN 60749-3	2002 ²⁾
IEC 60068-2-14	1984	Environmental testing Part 2: Tests - Test N: Change of temperature	EN 60068-2-14 ³⁾	1999

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

³⁾ EN 60068-2-14 includes A1:1986 to IEC 60068-2-14.

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