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Irish Standard I.S. EN 62047-9:2011

Semiconductor devices - Microelectromechanical devices -- Part 9: Wafer to wafer bonding strength measurement for MEMS (IEC 62047 -9:2011 (EQV))

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# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

# EN 62047-9

August 2011

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## Semiconductor devices -Micro-electromechanical devices -Part 9: Wafer to wafer bonding strength measurement for MEMS (IEC 62047-9:2011)

Dispositifs à semiconducteurs -Dispositifs microélectromécaniques -Partie 9: Mesure de la résistance de collage de deux plaquettes pour les MEMS (CEI 62047-9:2011) Halbleiterbauelemente -Bauelemente der Mikrosystemtechnik -Teil 9: Prüfverfahren zur Festigkeit von Full-Wafer-Bondverbindungen in der Mikrosystemtechnik (MEMS) (IEC 62047-9:2011)

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#### Foreword

The text of document 47F/82/FDIS, future edition 1 of IEC 62047-9, prepared by SC 47F, Microelectromechanical systems, of IEC TC 47, Semiconductor devices, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62047-9 on 2011-08-17.

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| _ | latest date by which the EN has to be implemented<br>at national level by publication of an identical<br>national standard or by endorsement | (dop) | 2012-05-17 |
|---|--|-------|------------|
| _ | latest date by which the national standards conflicting with the EN have to be withdrawn   | (dow) | 2014-08-17 |

Annex ZA has been added by CENELEC.

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| IEC 62047-2 | NOTE | Harmonized as EN 62047-2. |
|-------------|------|---------------------------|
| IEC 62047-4 | NOTE | Harmonized as EN 62047-4. |

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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  | <u>EN/HD</u>  | <u>Year</u> |
|----------------|------|--|---------------|-------------|
| IEC 60749-19   | -    | Semiconductor devices - Mechanical and<br>climatic test methods -<br>Part 19: Die shear strength         | EN 60749-19   | -           |
| ISO 6892-1     | 2009 | Metallic materials - Tensile testing -<br>Part 1: Method of test at room temperature                     | EN ISO 6892-1 | 2009        |
| ASTM E399-06e2 | 2008 | Standard Test Method for Linear-Elastic<br>Plane-Strain Fracture Toughness K Ic of<br>Metallic Materials | -             | -           |

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