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Semiconductor devices – Part 14-11: Semiconductor sensors – Test method of surface acoustic wave-based integrated sensors for measuring ultraviolet, illumination and temperature

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SEMICONDUCTOR DEVICES –

Part 14-11: Semiconductor sensors – Test method of surface acoustic wave-based integrated sensors for measuring ultraviolet, illumination and temperature

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International Standard IEC 60747-14-11 has been prepared by subcommittee 47E: Discrete semiconductor devices, of IEC technical committee 47: Semiconductor devices.

The text of this International Standard is based on the following documents:

CDV	Report on voting
47E/674/CDV	47E/709/RVC

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

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

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- withdrawn,
- replaced by a revised edition, or
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SEMICONDUCTOR DEVICES –

Part 14-11: Semiconductor sensors – Test method of surface acoustic wave-based integrated sensors for measuring ultraviolet, illumination and temperature

1 Scope

This part of IEC 60747 defines the terms, definitions, configuration, and test methods can be used to evaluate and determine the performance characteristics of surface acoustic wave-based semiconductor sensors integrated with ultraviolet, illuminance, and temperature sensors. The measurement methods are for DC characteristics and RF characteristics, and the measurement method for RF characteristics includes a direct mode and differential amplifier mode based on feedback oscillation. This document excludes devices dealt with by TC 49: piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 63041-1, *Piezoelectric sensors – Part 1: Generic specifications*

IEC 63041-2, *Piezoelectric sensors – Part 2: Chemical and biochemical sensors*