

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Integrated circuits – EMC evaluation of transceivers –  
Part 2: LIN transceivers**

**Circuits intégrés – Évaluation de la CEM des émetteurs-récepteurs –  
Partie 2: Émetteurs-récepteurs LIN**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**INTEGRATED CIRCUITS –  
EMC EVALUATION OF TRANSCEIVERS –**

**Part 2: LIN transceivers**

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

FDIS	Report on voting
47A/994/FDIS	47A/998/RVD

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 2.

A list of all parts in the IEC 62228 series, published under the general title *Integrated circuits – EMC evaluation of transceivers*, can be found on the IEC website.

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# INTEGRATED CIRCUITS – EMC EVALUATION OF TRANSCEIVERS –

## Part 2: LIN transceivers

### 1 Scope

This part of IEC 62228 specifies test and measurement methods for EMC evaluation of LIN transceiver ICs under network condition. It defines test configurations, test conditions, test signals, failure criteria, test procedures, test setups and test boards. It is applicable for standard LIN transceiver ICs and ICs with embedded LIN transceiver and covers

- the emission of RF disturbances,
- the immunity against RF disturbances,
- the immunity against impulses and
- the immunity against electrostatic discharges (ESD).

### 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 61967-1, *Integrated circuits – Measurement of electromagnetic emissions 150 kHz to 1 GHz – Part 1: General conditions and definitions*

IEC 61967-4, *Integrated circuits – Measurement of electromagnetic emissions 150 kHz to 1 GHz – Part 4: Measurement of conducted emissions – 1  $\Omega$  /150  $\Omega$  direct coupling method*

IEC 62132-1, *Integrated circuits – Measurement of electromagnetic immunity – Part 1: General conditions and definitions*

IEC 62132-4, *Integrated circuits – Measurement of electromagnetic immunity 150 kHz to 1 GHz – Part 4: Direct RF power injection method*

IEC 62215-3, *Integrated circuits – Measurement of impulse immunity – Part 3: Non-synchronous transient injection method*

ISO 7637-2, *Road vehicles — Electrical disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only*

ISO 10605, *Road vehicles – Test methods for electrical disturbances from electrostatic discharge*

ISO 17987-6.2<sup>1</sup>, *Road vehicles – Local interconnect network (LIN) – Part 6: Protocol conformance test specification*

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<sup>1</sup> To be published.