

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Transformers and inductors for use in electronic and telecommunication equipment – Measuring methods and test procedures**

**Transformateurs et inductances utilisés dans les équipements électroniques et de télécommunications – Méthodes de mesure et procédures d'essais**





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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**TRANSFORMERS AND INDUCTORS FOR USE IN ELECTRONIC AND  
TELECOMMUNICATION EQUIPMENT –  
MEASURING METHODS AND TEST PROCEDURES**

## FOREWORD

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International Standard IEC 61007 has been prepared by IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials.

This third edition cancels and replaces the second edition published in 1994. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) scope: the application of the scope of IEC 61007 was extended;
- b) Clause 2: added new references and updated the references;
- c) Clause 3: new definitions were added in 3.3, and in 3.7 the voltage-time product was redefined;

d) test procedures were updated:

1) addition of test method:

AC resistance (in 4.4.1.2); short-circuit power test (in 4.4.3.4); efficiency (in 4.4.3.5); phase unbalance (in 4.4.5.7); amplitude unbalance (radio frequency) (in 4.4.5.8); transformation ratio by impedance (in 4.4.7.1); coefficient of coupling (in 4.4.7.2); cross-talk (in 4.4.10);

2) modification of test method:

Insulation resistance (an error range of the testing voltage, in 4.4.2.3);

3) deletion of test method:

Effective resistance;

e) environmental test procedures: new references were added;

f) Annexes A to G were added.

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

CDV	Report on voting
51/1319/CDV	51/1339/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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