

Inductive components — Reliability management

The European Standard EN 62211:2004 has the status of a
British Standard

ICS 29.100.10

National foreword

This British Standard is the official English language version of EN 62211:2004. It is identical with IEC 62211:2003.

The UK participation in its preparation was entrusted to Technical Committee EPL/51, Transformers inductors, magnetic components and ferrite materials, which has the responsibility to:

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- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 16, an inside back cover and a back cover.

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Reliability management
(IEC 62211:2003)**

Composants inductifs –
Gestion de la fiabilité
(CEI 62211:2003)

Induktive Bauelemente -
Zuverlässigkeitsmanagement
(IEC 62211:2003)

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CENELEC

European Committee for Electrotechnical Standardization
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Foreword

The text of document 51/724/FDIS, future edition 1 of IEC 62211, prepared by IEC TC 51, Magnetic components and ferrite materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62211 on 2003-12-01.

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) 2004-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-12-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62211:2003 was approved by CENELEC as a European Standard without any modification.

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INDUCTIVE COMPONENTS – RELIABILITY MANAGEMENT

1 Scope

This International Standard is applicable to inductive components (chokes and transformers) based on magnetically soft materials. These are especially components based on laminated iron sheets, iron powder materials (including alloys), as well as ferrites and amorphous or crystalline metal band cores.

Winding assemblies means wire winding assemblies as well as multilayer and stacking technologies of planar technology including the coil based on non-magnetic materials. Discrete type components and the different types of surface-mountable inductive components (SMD) are also considered in this standard.

The reliability of assemblies of inductive components based on several technologies such as glued types, types with clamps (clips), impregnated (varnished) types as well as (vacuum) potted types can also be checked with this standard.

The subsequent determinations can be applied either for the primary qualification of inductive components or for all ways of requalification examinations (design, process, change of production facility). They can also be applied for the monitoring of products out of actual manufacturing processes.

This standard sets up a broad basis of electric and mechanical criteria of failure test procedures.

If manufacturers advertise compliance with this standard in their data sheets, customers may request data to demonstrate compliance to this standard. The customers may also request the product to be in compliance to this standard by a recognised national institute.

Customers and manufacturers may elect to perform additional testing and acceptance criteria different than those defined in this standard.

2 Normative references

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.

IEC 60068-2-1, *Environmental testing – Part 2: Tests. Tests A: Cold*

IEC 60068-2-2, *Environmental testing – Part 2: Tests. Tests B: Dry heat*

IEC 60068-2-6, *Environmental testing – Part 2: Tests – Test Fc: Vibration (sinusoidal)*

IEC 60068-2-14, *Environmental testing – Part 2: Tests. Test N: Change of temperature*

IEC 60068-2-20, *Environmental testing – Part 2: Tests. Test T: Soldering*