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Irish Standard
I.S. EN 62674-1:2012

High frequency inductive components -- Part 1: Fixed surface mount inductors for use in electronic and telecommunication equipment (IEC 62674-1:2012 (EQV))

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62674-1

December 2012

ICS 29.100.10

English version

High frequency inductive components - Part 1: Fixed surface mount inductors for use in electronic and telecommunication equipment

(IEC 62674-1:2012)

Composants inductifs à haute fréquence - Partie 1: Inductances fixes pour montage en surface utilisées dans les matériels électroniques et les équipements de télécommunications
(CEI 62674-1:2012)

Induktive Hochfrequenzbauelemente - Teil 1: Oberflächenmontierbare Festinduktivität für den Einsatz in Elektronik und Telekommunikationsgeräten
(IEC 62674-1:2012)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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Ref. No. EN 62674-1:2012 E

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Foreword

The text of document 51/1006/FDIS, future edition 1 of IEC 62674-1, prepared by IEC TC 51, "Magnetic components and ferrite materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62674-1:2012.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2013-08-16
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-11-16

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Annex ZA
(normative)
Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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	EN/HD	Year
IEC 60068-1 + corr. October	1988 1988	Environmental testing - Part 1: General and guidance	EN 60068-1[1)]	1994
IEC 60068-2-1	2007	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	2007
IEC 60068-2-2	2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	2007
IEC 60068-2-14	2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	2009
IEC 60068-2-45	-	Environmental testing - Part 2: Tests - Test Xa and guidance: Immersion in cleaning solvents	EN 60068-2-45	-
IEC 60068-2-58	2004	Environmental testing - Part 2-58: Tests - Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)	EN 60068-2-58 + corr. December	2004 2004
IEC 60068-2-78	-	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	-
IEC 61605	2005	Fixed inductors for use in electronic and telecommunication equipment - Marking codes	EN 61605	2005
IEC 62024-1 + corr. July	2008 2008	High frequency inductive components - Electrical characteristics and measuring methods - Part 1: Nanohenry range chip inductor	EN 62024-1	2008
IEC 62024-2	2008	High frequency inductive components - Electrical characteristics and measuring methods - Part 2: Rated current of inductors for DC to DC converters	EN 62024-2	2009
IEC 62025-2	2005	High frequency inductive components - Non-electrical characteristics and measuring methods - Part 2: Test methods for non-electrical characteristics	EN 62025-2	2005
IEC 62211	2003	Inductive components - Reliability management	EN 62211	2004
ISO 3	-	Preferred numbers - Series of preferred numbers	-	-

[1)] EN 60068-1 includes A1 to IEC 60068-1+ corr. October .

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Publication	Year	Title	EN/HD	Year
ISO 3599	-	Vernier callipers reading to 0,1 and 0,05 mm	-	-
ISO 3611	-	Geometrical product specifications (GPS) - Dimensional measuring equipment: Micrometers for external measurements - Design and metrological characteristics	EN ISO 3611	-
ISO 6906	-	Vernier callipers reading to 0,02 mm	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HIGH FREQUENCY INDUCTIVE COMPONENTS –

Part 1: Fixed surface mount inductors for use in electronic and telecommunication equipment

FOREWORD

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International Standard IEC 62674-1 has been prepared by IEC technical committee 51: Magnetic components and ferrite materials.

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

FDIS	Report on voting
51/1006/FDIS	51/1009/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.

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The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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HIGH FREQUENCY INDUCTIVE COMPONENTS –

Part 1: Fixed surface mount inductors for use in electronic and telecommunication equipment

1 Scope

This part of IEC 62674 applies to fixed surface mount inductors and ferrite beads.

The object of this standard is to define the terms necessary to describe the inductors covered by this standard, provide recommendations for preferred characteristics, recommended performance, test methods and general guidance.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-1:1988, *Environmental testing – Part 1: General and guidance*

IEC 60068-2-1:2007, *Environmental testing – Part 2-1: Tests – Test A: Cold*

IEC 60068-2-2:2007, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*

IEC 60068-2-14:2009, *Environmental testing – Part 2-14: Tests – Test N: Change of temperature*

IEC 60068-2-45, *Basic environmental testing procedures – Part 2-45: Tests – Test XA and guidance: Immersion in cleaning solvents*

IEC 60068-2-58:2004, *Environmental testing – Part 2-58: Tests – Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)*

IEC 60068-2-78, *Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state*

IEC 61605:2005, *Fixed inductors for use in electronic and telecommunication equipment – Marking codes*

IEC 62024-1:2008, *High frequency inductive components – Electrical characteristics and measuring methods – Part 1: Nanohenry range chip inductor*

IEC 62024-2:2008, *High frequency inductive components – Electrical characteristics and measuring methods – Part 2: Rated current of inductors for DC to DC converters*

IEC 62025-2:2005, *High frequency inductive components – Non-electrical characteristics and measuring methods – Part 2: Test methods for non-electrical characteristics*

IEC 62211:2003, *Inductive components – Reliability management*

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