

STN	Vysokofrekvenčné indukčné súčiastky Elektrické charakteristiky a metódy merania Časť 2: Menovitý prúd induktorov pre DC/DC konvertory	STN EN IEC 62024-2 34 5850
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High frequency inductive components - Electrical characteristics and measuring methods - Part 2: Rated current of inductors for DC-to-DC converters

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/20

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May 2020

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Supersedes EN 62024-2:2009 and all of its amendments
and corrigenda (if any)

English Version

High frequency inductive components - Electrical characteristics
and measuring methods - Part 2: Rated current of inductors for
DC-to-DC converters
(IEC 62024-2:2020)

Composants inductifs à haute fréquence - Caractéristiques
électriques et méthodes de mesure - Partie 2: Courant
assigné des bobines d'induction pour des convertisseurs
continu-continu
(IEC 62024-2:2020)

Induktive Hochfrequenz-Bauelemente - Elektrische
Eigenschaften und Messmethoden - Teil 2:
Bemessungsstrom von Drosselspulen für DC/DC-Wandler
(IEC 62024-2:2020)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62024-2:2020 (E)**European foreword**

The text of document 51/1303/CDV, future edition 2 of IEC 62024-2, prepared by IEC/TC 51 "Magnetic components, ferrite and magnetic powder materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62024-2:2020.

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) 2021-02-05
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Annex ZA (normative)

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-1	2013	Environmental testing - Part 1: General and guidance	EN 60068-1	2014
IEC 62025-1	-	High frequency inductive components - Non-electrical characteristics and measuring methods - Part 1: Fixed, surface mounted inductors for use in electronic and telecommunication equipment	EN 62025-1	-



IEC 62024-2

Edition 2.0 2020-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Composants inductifs à haute fréquence – Caractéristiques électriques et méthodes de mesure –
Partie 2: Courant assigné des bobines d'induction pour des convertisseurs continu-continu**



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IEC 62024-2

Edition 2.0 2020-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Part 2: Rated current of inductors for DC-to-DC converters**

**Composants inductifs à haute fréquence – Caractéristiques électriques et méthodes de mesure –
Partie 2: Courant assigné des bobines d'induction pour des convertisseurs continu-continu**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HIGH FREQUENCY INDUCTIVE COMPONENTS –
ELECTRICAL CHARACTERISTICS AND MEASURING METHODS –****Part 2: Rated current of inductors for DC-to-DC converters**

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International Standard IEC 62024-2 has been prepared IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials.

This second edition cancels and replaces the first edition published in 2008. This edition constitutes a technical revision.

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

- a) addition of Table 2 and Figure 2 b).

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

CDV	Report on voting
51/1303/CDV	51/1325/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.

A list of all parts of IEC 62024 series, published under the general title *High frequency inductive components – Electrical characteristics and measuring methods* can be found on the IEC website.

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

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

HIGH FREQUENCY INDUCTIVE COMPONENTS – ELECTRICAL CHARACTERISTICS AND MEASURING METHODS –

Part 2: Rated current of inductors for DC-to-DC converters

1 Scope

This part of IEC 62024 specifies the measuring methods of the rated direct current limits for small inductors.

Standardized measuring methods for the determination of ratings enable users to accurately compare the current ratings given in various manufacturers' data books.

This document is applicable to leaded and surface mount inductors with dimensions according to IEC 62025-1 and generally with rated current less than 22 A, although inductors with rated current greater than 22 A are available that fall within the dimension restrictions of this document (no larger than a 12 mm × 12 mm footprint approximately). These inductors are typically used in DC-to-DC converters built on PCBs, for electric and telecommunication equipment, and small size switching power supply units.

The measuring methods are defined by the saturation and temperature rise limitations induced solely by direct current.

2 Normative references

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IEC 60068-1:2013, *Environmental testing – Part 1: General and guidance*

IEC 62025-1, *High frequency inductive components – Non-electrical characteristics and measuring methods – Part 1: Fixed, surface mounted inductors for use in electronic and telecommunication equipment*

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