

Transformers and inductors for use in telecommunication and electronic equipment — Main dimensions of coil formers —

Part 1: Coil formers for laminated cores

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British Standard

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- National Physical Laboratory
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National foreword

This Part of BS EN 61797 has been prepared by Technical Committee EPL/51, and is the English language version of EN 61797-1:1996, *Transformers and inductors for use in telecommunication and electronic equipment — Main dimensions of coil formers — Part 1. Coil formers for laminated cores*, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 1797-1:1996, published by the International Electrotechnical Commission (IEC).

Cross-references

Publication referred to	Corresponding British Standard
HD 323.2.20 S3:1988 (IEC 68-2-20:1979)	BS 2011 <i>Environmental testing</i> Part 2 <i>Tests</i> Part 2.1T:1981 <i>Test T. Soldering</i>
HD 441 S1:1983 (IEC 707:1981)	BS 6334:1983 <i>Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source</i>
IEC 740:1982	BS 6554 <i>Laminations for transformers and inductors for use in telecommunication and electronic equipment</i> Part 1:1984 <i>Specification for dimensions, mechanical characteristics and electrical testing</i>
EN 20286-1:1993 (ISO 286-1:1988)	BS EN 20286 <i>ISO system of limits and fits</i> Part 1:1993 <i>ISO system of limits and fits. Bases of tolerances, deviations and fits</i>

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 24, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

ICS 29.180

Descriptors: Transformers and inductors, telecommunication and electronic equipment, coil formers for laminated cores, main dimensions, bracket mounting, printed board mounting, grid plans mounting, material of coil formers, solderability and mechanical strength of terminal pins

English version

Transformers and inductors for use in telecommunication
and electronic equipment — Main dimensions
of coil formers
Part 1: Coil formers for laminated cores

(IEC 1797-1:1996)

Transformateurs et inductances destinés
aux équipements électroniques et de
télécommunication
Dimensions principales des carcasses
Partie 1: Carcasses pour noyaux feuilletés
(CEI 1797-1:1996)

Transformatoren und Drosseln für
nachrichtentechnische und elektronische
Einrichtungen — Spulenkörperhauptmaße
Teil 1: Spulenkörper für lamellierte Kerne
(IEC 1797-1:1996)

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

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Foreword

The text of document 51/420/FDIS, future edition 1 of IEC 1797-1, 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 61797-1 on 1996-10-01.

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) 1997-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-07-01

Annexes designated “normative” are part of the body of the standard. In this standard, Annex ZA is normative. Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 1797-1:1996 was approved by CENELEC as a European Standard without any modification.

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1 Scope and object

This part of IEC 1797 specifies the main dimensions of coil formers for transformers and inductors, using a square stack of the laminations inserted in the coil formers. The main dimensions are those permitting interchangeability with respect to conformance with core sizes and outline dimensions of the completed components.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 1797. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 1797 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 68-2-20:1979, *Basic environmental testing procedures — Part 2: Tests — Test T: Soldering*.

Amendment 2 (1987)

IEC 321:1970, *Guidance for the design and use of components intended for mounting on boards with printed wiring and printed circuits*.

Amendment 1 (1975)

IEC 707:1981, *Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source*.

Amendment 1 (1992)

IEC 740:1982, *Laminations for transformers and inductors for use in telecommunication and electronic equipment*.

Amendment 1 (1991)

IEC 852, *Outline dimensions of transformers and inductors for use in telecommunication and electronic equipment*.

ISO 3:1973, *Preferred numbers — Series of preferred numbers*.

ISO 286-1:1988, *ISO system of limits and fits — Part 1: Bases of tolerances, deviations and fits*.

3 Laminations

For the purpose of this specification, the laminations shall conform with the dimensions of IEC types YEI 1, YEx 2, YUI 1, YUI 2 and YM 1, as prescribed in the tables of IEC 740. YEx stands for the types YEE, YEF, YEI, YEL and YES.

4 Coil former designation

Coil formers shall be designated as follows:

4.1 Standard version (without terminal pins)

