SLOVENSKI STANDARD
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Sectional specification: Magnetic oxide cores for linear transformers

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Rahmenspezifikation: Kerne aus magnetischen Oxiden für lineaire Übertrager

Spécification intermédiaire: Noyaux en oxyde magnétique destinés aux transformateurs linéaires

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English version

Sectional Specification: Magnetic oxide cores for linear transformers

Spécification Intermédiaire:
Noyaux en oxyde magnétique destinés aux transformateurs linéaires

Rahmenspezifikation:
Kerne aus magnetischen Oxiden für lineare Übertrager

This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 20 November 1991. The text of this standard consists of the text of CECC 25200 Issue 1 1977 of the corresponding CECC Specification. CENELEC members are bound to comply with CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the General Secretariat of the CECC or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CECC General Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom. The membership of the CECC is identical, with the exception of the national electrotechnical committees of Greece, Iceland and Luxembourg.

CECC

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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European Committee for Electrotechnical Standardization (CENELEC)
Cenelec Electronic Components Committee

CECC

English version

Harmonized System of Quality Assessment for
Electronic Components

SECTIONAL SPECIFICATION:

MAGNETIC OXIDE CORES FOR LINEAR TRANSFORMERS

Système Harmonisé d'Assurance de la Qualité
des Composants Electroniques

SPECIFICATION INTERMEDIAIRE:

NOYAUX EN OXYDES MAGNETIQUES DESTINES AUX TRANSFORMATEURS LINEAIRES

Harmonisiertes Gütebestätigungssystem für
Bauelemente der Elektronik

RAHMENSPEZIFIKATION:

KERNE AUS MAGNETISCHEN OXIDEN FÜR LINEARE ÜBERTRAGER

CECC 25200

1977

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Foreword

The CENELEC Electronic Components Committee (CECC) is composed of those member countries of the European Committee for Electrotechnical Standardization (CENELEC) who wish to take part in a harmonized System for electronic components of assessed quality.

The object of the System is to facilitate international trade by the harmonization of specifications and quality assessment procedures for electronic components, and by the grant of an internationally recognized Mark, or Certificate, of Conformity. The components produced under the System are thereby accepted by all member countries without further testing.

This document has been formally approved by the CECC, and has been prepared for those member countries taking part in the System who wish to issue national harmonized specifications for MAGNETIC OXIDE CORES FOR LINEAR TRANSFORMERS. It should be read in conjunction with document CECC 00100: Basic Rules (1974).

At the date of printing of this document, the member countries of the CECC are Belgium, Denmark, Germany, France, Ireland, Italy, the Netherlands, Norway, Sweden, Switzerland, the United Kingdom, and copies of it can be obtained from the National Committees of the CENELEC in these countries.

Preface

This sectional specification was prepared by CECC Working Group 12: "Magnetic Components".

This is one of a series of sectional specifications, all relating to the generic specification printed as CECC 25000.

In accordance with the requirements of document CECC 00100, it is based, wherever possible, on the Recommendations of the International Electrotechnical Commission and in particular on IEC Publication 367: Cores for inductors and transformers for telecommunications.

The text of this sectional specification was circulated to the CECC in document CECC (Secretariat) 527 in July 1976, and was ratified by the CECC for printing as a CECC Specification.

This document contains the front page and test schedules to be used in preparation of detail specifications. Each test schedule, referenced by a CECC number, when taken with the appropriate information in 5 of this specification, forms a detail specification.

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Section 1. Scope

This sectional specification lists the characteristics, ratings and inspection requirements for magnetic cores of assessed quality for linear transformers intended for professional and industrial applications, excluding power, blocking and tuned transformers. It selects from the generic specification CECC 25000 the appropriate methods of test to be used in detail specifications derived from this specification.

Section 2. General

2.1 Related documents

IEC 68	—	*Basic environmental testing procedures* (see CECC 00006)
IEC 68-1	(1968)	Part 1: *General.*
IEC 133	(1967)	*Dimensions for pot-cores made of ferromagnetic oxides and associated parts.*
IEC 205	(1966)	*Calculation of the effective parameters of magnetic piece parts.*
IEC 367-1	(1971)	Part 1: *Measuring methods.*
CECC 00 007	(1973)	*Basic specification: Sampling plans and procedures for inspection by attributes.*
IEC 424	(1973)	*Guide to the specification of limits for physical imperfections of parts made from magnetic oxides.*

2.2 Classification

A core according to this specification is classified by:

— shape: for example E core, toroid, pot core, . . .

— size: for example 18 × 11, X 22, RM 6, . . .

— class (combined electromagnetic properties). Since no systematic classification of the electromagnetic properties is available in CECC, each detail specification shall clearly define the class which it applies to. It may also state the appropriate class designation.

Normally, a detail specification will cover cores of one shape, size and class.

Section 3. Quality assessment procedures

The tests given in the table on page 2 are those that shall be included in each detail specification for magnetic oxide linear transformer cores.

These tests shall be carried out in accordance with the measuring methods presented in Sections 2 to 4 of CECC 25000.

Visual examination and measurement of dimensions may be carried out on half-cores prior to pairing or on a set, all other tests being carried out on a set.

Temperature dependence of A_L. The A_L values, within the specified temperature range, shall stay above the specified minimum.