SLOVENSKI STANDARD
SIST EN 125400:2002

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Sectional specification: Adjusters used with magnetic oxide cores for use in inductors and tuned transformers

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Rahmenspezifikation: Abgleiche für Kerne aus magnetischen Oxiden in Spulen und abgestimmten Übertragen

Spécification intermédiaire: Bâtonnets de réglage employés avec des noyaux en oxydes magnétiques destinés aux bobines d'inductance et transformateurs accordés

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English version

Sectional Specification: Adjusters used with magnetic oxide cores for use in inductors and turned transformers

Spécification Intermédiaire:
Bâtonnets de réglage employés avec des noyaux en oxydes magnétiques destinés aux bobines d'inductance et transformateurs accordés

Rahmenspezifikation:
Abgleiche für Kerne aus magnetischen Oxiden in Spulen und abgestimmten Übertragern

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 25400 Issue 1 1982 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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CECC 25400

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

CECC

English version

Harmonized System of Quality Assessment for Electronic Components

SECTIONAL SPECIFICATION:

ADJUSTERS USED WITH MAGNETIC OXIDE CORES FOR USE IN INDUCTORS AND TUNED TRANSFORMERS

Système Harmonisé d'Assurance de la Qualité des Composants Electroniques

SPECIFICATION INTERMEDIAIRE:

BATONNETS DE REGLAGE EMPLOYES AVEC DES NOYAUX EN OXYDE MAGNETIQUE DESTINES AUX BOBINES D'INDUCTANCE ET TRANSFORMATEURS ACCORDES

Harmonisiertes Gütebestätigungssystem für Bauelemente der Elektronik

RAHMENSPEZIFIKATION:

ABGLEICHE FÜR KERNE AUS MAGNETISCHEN OXIDEN IN SPULEN UND ABGESTIMMTEN ÜBERTRAGERN

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CECC 25400

1982

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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, of Certificate of Conformity. The components produced under the System are thereby accepted by all member countries without further testing.

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

Preface

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

It is one of a series of SS all relating to the generic specification (GS) 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 367: Cores for inductors and transformers for telecommunications.

The text of this SS was circulated to the CECC for voting in the document indicated below and was ratified by the CECC Management Committee for printing as a CECC specification:

Document	Voting Date	Report on the voting
CECC (Secretariat) 968	July 1980	CECC (Secretariat) 1079

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Section 1. Scope

This SS prescribes the characteristics and inspection requirements for adjusters of assessed quality for use with magnetic oxide (ferrite) cores intended for inductors and transformers in tuned circuits for professional and industrial applications.

It prescribes the appropriate test methods from the GS CECC 25000 for use in detail specifications (DS) derived from this SS, and contains the test schedules to be used in the preparation of such DS. The blank detail specification (BDS) CECC 25401 prescribes the information to be given in the test schedule in DS derived from this SS.

Adjusters complying with this specification are intended for use with cores made by the same manufacturer and may be used with cores complying with CECC 25100. Their use enables the inductance of an inductor or transformer to be adjusted for tuning.

Section 2. General

2.1 Related documents

Documents CECC 25000, CECC 25100.

2.2 Terminology

The definitions in **4.9.2** of CECC 25000 shall apply.

Section 3. Quality assessment procedures — test and measurement conditions

These tests shall be carried out in accordance with and as an extension of the measuring methods presented in Section 4 of CECC 25000.

3.1 Visual inspection

3.1.1 General

An adjuster may consist of a magnetic (ferrite or carbonyl iron) tube or rod having a moulded thermo-plastic carrier. Due to the method of manufacture and physical nature of the materials used, adjusters can be expected to exhibit some degree of physical imperfection other than the dimensional and geometric form imperfections permitted by the specified tolerances.

3.1.2 Chips

Chips in the magnetic part are permitted, providing they do not cause the adjuster to fail to meet the specified electrical and dimensional limits. However, a permissible chip may take a dimension locally outside its tolerance.

3.1.3 Cracks

Cracks other than minor surface ones in the magnetic part are not permitted.

3.1.4 Flash (fins)

Flash on the magnetic part and plastic carrier is permissible provided that the material of the flash does not become readily dissociated from the adjuster and does not interfere with its proper function.

3.2 Dimensions

Outline dimensions should be given for information purposes only. Dimensions need not be specified in the test schedule because the adjusting torque and adjustment range are an indirect inspection of dimensions.

3.3 Range of inductance adjustment (upper/lower limit)

3.3.1 Measuring procedure

The adjuster shall be tested in accordance with **4.9.5** of CECC 25000. The reference cores used for the tests shall be defined in the DS.

After the set of measurements, the used adjuster shall be discarded.

3.3.2 Assessment of results

The results shall be assessed in accordance with **4.9.6** of CECC 25000. It shall be verified that the upper and lower limits of the adjustment range specified can be obtained, that between these limits the slope of the curve does not reverse and that the minimum and maximum slope at any point in the adjustment range shall comply with any stated requirement.

3.4 Mechanical testing

3.4.1 The adjusting torque measured on a set shall be in accordance with the specified value.

3.4.2 Screw-type adjusters tested to **4.11.2** of CECC 25000 shall withstand the specified torque without damage.

3.4.3 Specimens shall be selected in accordance with **4.9.4** of CECC 25000.

3.5 Contribution of the adjusting device to the core instability

The test for core instability shall be in accordance with **4.1.4** of CECC 25000.

3.6 A table for quality conformance inspection is given in the BDS CECC 25401.