

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

CECC



Système Harmonisé d'Assurance de la Qualité des Composants Electroniques

SPECIFICATION PARTICULIERE CADRE:

**BATONNETS DE REGLAGE
EMPLOYES AVEC DES NOYAUX
EN OXYDES MAGNETIQUES
(FERRITES) DESTINES AUX
BOBINES D'INDUCTANCE
ET TRANSFORMATEURS
ACCORDES**

Harmonized System of Quality Assessment for Electronic Components

BLANK DETAIL SPECIFICATION:

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

Harmonisiertes Gütebestätigungssystem für Bauelemente der Elektronik

VORDRUCK FÜR
BAUARTSPEZIFIKATION:

ABGLEICHE FÜR KERNE AUS MAGNETISCHEN OXIDEN (FERRITEN) IN SPULEN UND ABGESTIMMTEN ÜBERTRAGERN

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AVA **Documents**
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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 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 00 100 : Basic Rules (1974).

At the date of printing of this document, the member countries of the CECC are Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Sweden, Switzerland, and the United Kingdom. Copies of it can be obtained from the addressees shown on the inside cover.

PREFACE

This blank detail specification (BDS) was prepared by CECC Working Group 12: "Magnetic Components".

It is related to the generic specification printed as CECC 25 000 and sectional specification printed as CECC 25 400.

In accordance with the requirements of document CECC 00 100, 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 BDS was circulated to the CECC for voting in the document indicated below and was ratified by the President of the CECC for printing as a CECC specification:

<u>Document</u>	<u>Voting Date</u>	<u>Report on the voting</u>
CECC(Secretariat)968	June 1981	CECC(Secretariat)1079

The following information shall be included in each detail specification (DS) together with the required values. Any grouping into families shall be based on the relevant core bore size and mechanical system and shall be stated in the DS.

The general data necessary to identify the DS and the component shall preferably be presented as shown in 7.

The numbers in brackets on page 4 indicate the following information which shall be given:

1 Identification of the DS

- (1) The name of the National Standards Organization under whose authority the DS is published and, if applicable, the organization from whom the DS is available
- (2) The CECC symbol and the number allotted to the DS by the CECC General Secretariat
- (3) The number and issue number of the CECC generic or sectional specification as relevant; also national reference if different
- (4) If different from the CECC number, the national number of the DS, date of issue and any further information required by the national system, together with any amendment numbers.

2 Identification of the adjuster

- (5) A brief description of the type of adjuster
- (6) Information on typical construction
- (7) Outline drawing with main dimensions which are of importance for interchangeability, and/or reference to the appropriate national or international document for outlines
- (8) Application or group of applications covered by the DS
- (9) Specify reference core.

For (5) and (6) the text to be given in the DS should be suitable for an entry in CECC 00 200 and CECC 00 300.

3 Limiting conditions (not for inspection purposes)

- Operating conditions : Any mechanical or environmental conditions which shall not be exceeded shall be stated as absolute values
- Storage conditions : for example: - 10 °C to 70 °C, but a combination of high humidity and high temperature should be avoided.

4 Marking of component and package

4.1 Component

Colour coding if specified

4.2 Package

- Detail specification reference
- Manufacturer's component designation and name of manufacturer or ideogram
- Quantity

5 Additional information

Information on the reference core should be given.

6 Ordering information

6.1 Detail specification reference

6.2 Manufacturer's component designation

7 Format of the detail specification

Detail specifications for adjusters shall be in accordance with the format of this BDS.

(1) Specification available from:-	(2) CECC 25 401-xxx 
(3) ELECTRONIC COMPONENTS OF ASSESSED QUALITY - DETAIL SPECIFICATION IN ACCORDANCE WITH	(4)
(7) Outline and dimensions : - (first angle projection)	(5) DETAIL SPECIFICATION FOR Magnetic adjusters intended for inductor and tuned transformer applications
	(6)
	(8)
(9)	

See the current Qualified Products List for the availability of components
qualified to this detail specification

	Values
3 <u>Limiting conditions</u> (not for inspection purposes) - Operating conditions : temperature range specified - Storage conditions : temperature range specified.	
4 <u>Marking of component and package</u> 4.1 <u>Component</u> : - for example: colour coding 4.2 <u>Package</u> : - DS reference - Manufacturer's component designation and name of manufacturer or ideogram - Quantity.	
6 <u>Ordering information</u> 6.1 DS reference 6.2 Manufacturer's component designation.	

TEST SCHEDULE

CECC 25 400 Clause Number and Test	Conditions of Test	I L	A Q L	Performance Requirements
<u>GROUP A INSPECTION</u>				
To be conducted on a sampling basis, lot-by-lot				
<u>Sub-Group A1 (Non destructive)</u>				
3.1.2 to 3.1.4 Visual inspection		1	1,5 %	as in 3.1
<u>Sub-Group A2 (Destructive)</u>				
3.3 Adjustment range	$\hat{B}$ $f(\text{kHz})$ $U(\text{mV})$	S-2	4 %	$a_{\text{max.}}$ $b_{\text{min.}}$ $(\frac{\Delta L}{L}/\text{turn})_{\text{max. in \%}}$

NOTE: Inspection level (IL) and acceptable quality level (AQL) from CECC 00 007 (IEC 410).

CECC 25 400 Clause Number and Test	Conditions of Test	Sample size & criterion of acceptability			Performance Requirements
		P	n	c *	
<u>GROUP C INSPECTION</u>					
To be conducted on a sampling basis at the periodicity given in column "P"					
<u>Sub-Group C1 (Destructive)</u>					
Mechanical testing					
3.4.1 Adjusting torque		6	15	1	N.m
3.4.2 End stop torque		6	15	1	upper limit lower limit without damage
<u>Sub-Group C2 (Destructive)</u>					
3.5 Contribution of the adjusting device to the core instability	Clamping force test coil N: $\hat{B}$ $f(\text{kHz})$ $U(\text{mV})$ t_1, t	36	5		for information only

*The sample size should be increased if necessary to take account of each position of a multicavity die.

In this table: P = Periodicity (in months); n = sample size;
c = acceptance criterion.