

Harmonized system of quality assessment for electronic components: Generic specification: Directly heated negative temperature coefficient thermistors

The European Standard EN 143000:1991 has the status of a British Standard.

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- British Electrical and Allied Manufacturers' Association (BEAMA)
- Electricity Supply Industry in England and Wales*
- Electronic Components Industry Federation*
- Electronic Engineering Association*
- Institution of Electronic and Radio Engineers
- National Supervising Inspectorate*
- Post Office*
- Society of British Aerospace Companies Limited*
- Telecommunication Engineering and Manufacturing Association (TEMA)

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

- British Broadcasting Corporation
- Electrical Research Association

This British Standard, having been prepared under the direction of the Electronic Components Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 August 1982

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National foreword

This British Standard has been prepared under the direction of the Electronic Components Standards Committee. It is identical with CENELEC Electronic Components Committee (CECC) 43000 “*Harmonized system of quality assessment for electronic components. Generic specification: Thermistors*”.

This standard is a harmonized specification within the CECC system.

“In 1991 the CENELEC Electronic Components Committee (CECC) accepted CECC 43000:1982 as European Standard EN 143000:1991.”

Terminology and conventions. The text of the CECC specification has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is especially drawn to the following.

The comma has been used throughout as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Cross-references. The British Standard harmonized with CECC 00100 is BS E9000 “Specification for general requirements for electronic components of assessed quality harmonized with the CENELEC *Electronic Components Committee System*” Part 1 “*Basic rules*”.

International Standard	Corresponding British Standard
ISO 3:1973	BS 2045:1965 <i>Preferred numbers</i> (Technically equivalent)
ISO 1000:1981	BS 5555:1981 <i>Specification for SI units and recommendations for the use of their multiples and of certain other units</i> (Identical)
IEC 50	BS 4727 <i>Glossary of electrotechnical, power, telecommunications, electronics, lighting and colour terms</i> (Technically equivalent)
IEC 62:1974	BS 1852:1975 <i>Marking codes for resistors and capacitors</i> (Identical)
	BS 2011 <i>Basic environmental testing procedures</i>
IEC 68-1:1978	Part 1.1:1980 <i>General</i> (Identical)
IEC 68-2-1:1974	Part 2.1A:1977 <i>Tests A. Cold</i> (Identical)
IEC 68-2-2:1974	Part 2.1B:1977 <i>Tests B. Dry heat</i> (Identical)
IEC 68-2-3:1969	Part 2.1Ca:1977 <i>Test Ca. Damp heat, steady state</i> (Identical)
IEC 68-2-4:1960	Part 2.1Da:1977 <i>Test Da. Accelerated damp heat</i> (Identical)
IEC 68-2-6:1970	Part 2.1Fc:1977 <i>Test Fc. Vibration (sinusoidal)</i> (Identical)
IEC 68-2-11:1981	Part 2.1Ka:1982 <i>Test Ka. Salt mist</i> (Identical)
IEC 68-2-13:1966	Part 2.1M:1977 <i>Test M. Low air pressure</i> (Identical)
IEC 68-2-20:1979	Part 2.1T:1981 <i>Test T. Soldering</i> (Identical)

International Standard	Corresponding British Standard
IEC 68-2-21:1975	Part 2.1U:1977 <i>Test U. Robustness of terminations and integral mounting devices</i> (Identical)
IEC 68-2-27:1972	Part 2.1Ea:1977 <i>Test Ea. Shock</i> (Identical)
IEC 68-2-29:1968	Part 2.1Eb:1977 <i>Test Eb. Bump</i> (Identical)
IEC 294:1969	BS 5692:1979 <i>Method for measurement of the dimensions of a cylindrical electronic component having two axial terminations</i> (Identical)
IEC 410:1973	BS 6001:1972 <i>Sampling procedures and tables for inspection by attributes</i> (Technically equivalent)

The committee has reviewed the provisions of the following International Standards, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. Although there are no identical or technically equivalent British Standards, a list of related British Standards is given.

International Standard	Related British Standard
IEC 27-1:1971	BS 1991 <i>Letter symbols, signs and abbreviations</i> Part 6:1975 <i>Electrical science and engineering</i>
IEC 63:1963	BS 2488:1966 <i>Schedule of preferred numbers for the resistance of resistors and the capacitance of capacitors for telecommunication equipment</i>
IEC 117	BS 3939 <i>Graphical symbols for electrical power, telecommunications and electronics diagrams</i>

NOTE The title of this British Standard differs from that given on the CECC document. An amendment to the CECC title will be published.

There is no corresponding British Standard for IEC 539. Since this is referred to for information only, the validity of this standard is not affected.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN title page, page 2, the CECC title page, pages ii to iv, pages 1 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.

UDC:

Descriptors: Quality, electronic components, thermistors

English version

Generic Specification: Thermistors

Spécification Générique:
ThermistancesFachgrundspezifikation:
Temperaturabhängige Widerstände

This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 14 October 1991. The text of this standard consists of the text of CECC 43000 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

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

CECC

English version

Harmonized System of Quality Assessment for
Electronic Components

GENERIC SPECIFICATION:
THERMISTORS

Système Harmonisé d'Assurance de la Qualité
des Composants Electroniques

SPECIFICATION GNERIQUE:
THERMISTANCES

Harmonisiertes Gütebestätigungssystem für
Bauelemente der Elektronik

FACHGRUNDSPEZIFIKATION:
**TEMPERATURABHÄNGIGE
WIDERSTÄNDE**



1

Issue
Edition
Ausgabe

CECC 43 000

1982



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 document has been formally approved by the CECC, and has been prepared for those countries taking part in the System who wish to prepare and issue detail specifications for THERMISTORS. It should be read in conjunction with document CECC 00 100: Basic Rules (1974).

Preface

This generic specification was prepared by CECC Working Group 4: "Resistors".

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 539: Directly heated negative temperature coefficient thermistors.

The text of this generic specification was circulated to the CECC for voting in the documents listed below and was ratified by the CECC for printing as a CECC specification.

Document	Voting date	Report on the voting
CECC(Secretariat)794	July 1979	CECC(Secretariat)877
CECC(Secretariat)795	July 1979	CECC(Secretariat)878
CECC(Secretariat)1007	December 1980	CECC(Secretariat)1092

