

**Harmonized system of quality
assessment for electronic components**

Generic Specification — Variable capacitors — (Qualification approval and capability approval)

The European Standard EN 134000:1994 has the status of a
British Standard

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee EPL/40, Capacitors and resistors for electronic equipment, upon which the following bodies were represented:

- Federation of the Electronics Industry
- Ministry of Defence
- National Supervising Inspectorate (BSI PC)

The following bodies were also represented in the drafting of the standard, through sub-committees and panels

- BEAMA Ltd.
- BSI Testing Services

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National foreword

This British Standard has been prepared by Technical Committee EPL/40 and is the English language version of EN 134000:1994, *Generic specification: Variable capacitors (Qualification approval and capability approval)* published by the European Committee for Electrotechnical Standardization (CENELEC) Electronic Components Committee (CECC).

Cross-references

Publication referred to	Corresponding British Standard
EN 100114-I:1993	BS EN 100114 <i>Rule of Procedure 14. Quality assessment procedures.</i> Part 1:1994 <i>Approval of manufacturers and other organizations</i>
CECC 00014:1988 (EN 100014:1992)	BS EN 100014:1992 <i>Harmonized system of quality assessment for electronic components. Basic specification: CECC assessed process average procedure (60 % confidence limit)</i> BS CECC 00114 <i>Rule of procedure 14. Quality assessment procedures.</i>
CECC 00114-II:1994	Part 2:1995 <i>Qualification approval of electronic components</i>
CECC 00114-III:1993	Part 3:1993 <i>Capability approval of an electronic component manufacturing activity</i>
ISO 3:1973 } ISO 497:1973 }	BS 2045:1965 <i>Preferred numbers</i>
IEC 50	BS 4727 <i>Glossary of electrotechnical, power, telecommunication, electronics, lighting and colour terms</i>
IEC 62:1992	BS EN 60062:1994 <i>Marking codes for resistors and capacitors</i>
IEC 63:1963	BS 2488:1966 <i>Schedule of preferred numbers for the resistance of resistors and capacitance of capacitors for telecommunication equipment</i>
IEC 68	BS 2011 <i>Environmental testing</i>
IEC 68-1:1988	Part 1.1:1989 <i>General and guidance</i> BS EN 60068: <i>Environmental testing</i>
EN 60068-2-1:1993 (IEC 68-2-1:1990)	BS EN 60068-2-1:1993 <i>Tests A. Cold</i>
EN 60068-2-2:1993 (IEC 68-2-2:1974)	BS EN 60068-2-2:1993 <i>Tests B. Dry heat</i>
IEC 68-2-3:1969	BS 2011 <i>Environmental testing</i> Part 2.1Ca:1977 <i>Test Ca. Damp heat, steady state</i>
IEC 68-2-6:1970	Part 2.1Fc:1983 <i>Test Fc. Vibration (sinusoidal)</i>
IEC 68-2-13:1983	Part 2.1M:1984 <i>Test M. Low air pressure</i>
IEC 68-2-14:1974	Part 2.1N:1985 <i>Test N. Change of temperature</i>
IEC 68-2-20:1979	Part 2.1T:1981 <i>Test T. Soldering</i>
IEC 68-2-21:1985	Part 2.1U:1984 <i>Test U. Robustness of terminations and integral mounting devices</i> BS EN 60068 <i>Environmental testing</i>
EN 60068-2-27:1993 (IEC 68-2-27:1978)	BS EN 60068-2-27:1993 <i>Environmental testing procedures. Tests. Test Ea and guidance. Shock</i>
EN 60068-2-29:1993 (IEC 68-2-29:1988)	BS EN 60068-2-29:1993 <i>Environmental testing procedures. Tests. Test Eb and guidance. Bump</i>

Publication referred to	Corresponding British Standard
IEC 68-2-30:1980	BS 2011 <i>Environmental testing</i> Part 2.1Db:1981 <i>Test Db and guidance : Damp heat, cyclic (12 + 12 hour cycle)</i> BS EN 60068 <i>Environmental testing</i>
EN 60068-2-45:1992 (IEC 68-2-45:1980)	BS EN 60068-2-45:1993 <i>Environmental testing. Tests. Test XA and guidance. Immersion in cleaning solvents</i>
IEC 418	BS 5786 <i>Variable capacitors</i> Part 1:1979 <i>Methods of test</i>
IEC 617	BS 3939 <i>Graphical symbols for electrical power, telecommunications and electronics diagrams</i>

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN title page, pages 2 to 22, 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.

Descriptors: Quality, electronic components, capacitors

English version

Generic specification:
Variable capacitors
(Qualification approval and capability approval)

Spécification générique:
Condensateurs variables
(Homologation et agrément de savoir-faire)

Fachgrundspezifikation:
Einstellbare Kondensatoren
(Bauartanerkennung und
Befähigungsanerkennung)

This European Standard was approved by the CENELEC Electronic Committee (CECC) on 29 July 1993. CENELEC members are bound to comply with the 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.

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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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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 the 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 acceptable in all member countries without further testing.

This European Standard was prepared by CECC WG 3, Capacitors.

The text of the draft based on document CECC(Sec)3095 was submitted to the formal vote; together with the voting report, circulated as document CECC(Sec)3376, it was approved by CECC as EN 134000 on 29 July 1993. This voting report also covers document CECC WG3(Hayward)2E/02.93.

At its meeting in Nuremberg in May 1993 CECC WG 3 decided to use for publication document CECC WG3(Hayward)2E, a revision of CECC(Sec)3095, wherein Section 3 had been changed in view of the capability approval procedure according to EN 130000. It should be published without voting because the former document had been closed with positive votes only (see minutes of the mentioned meeting CECC WG3(Sec)255 item 8.2).

The text of EN 134000 is based on the following documents:

- CECC CECC(Sec)3095/03.92
[RV CECC(Sec)3376/06.93] and
- CECC WG3(Hayward)2E/02.93
[RV CECC(Sec)3376/06.93].

The following dates were fixed:

- latest date of announcement of the EN at national level (doa) 1993-11-30
- latest date of publication of an identical national standard (dop) 1994-05-31
- latest declaration of NS obsolescence 1994-05-31
- latest date of withdrawal of conflicting national standards (dow) 2003-11-30

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