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Sectional Specification: Fixed low power film resistors

Som svensk standard gäller europastandarden EN 140100:2008. Den svenska standarden innehåller den officiella engelska språkversionen av EN 140100:2008.

Nationellt förord

Tidigare fastställd svensk standard SS-EN 140100, utgåva 1, 2002 och SS-EN 140100/A1, utgåva 1, 2002, gäller ej fr o m 2010-10-01.

ICS 31.040.10

Denna standard är fastställd av SEK Svensk Elstandard, som också kan lämna upplysningar om **sakinnehållet** i standarden.
Postadress: SEK, Box 1284, 164 29 KISTA
Telefon: 08 - 444 14 00. Telefax: 08 - 444 14 30
E-post: sek@elstandard.se. Internet: www.elstandard.se

Standarder underlättar utvecklingen och höjer elsäkerheten

Det finns många fördelar med att ha gemensamma tekniska regler för bl a säkerhet, prestanda, dokumentation, utförande och skötsel av elprodukter, elanläggningar och metoder. Genom att utforma sådana standarder blir säkerhetskraven tydliga och utvecklingskostnaderna rimliga samtidigt som marknadens acceptans för produkten eller tjänsten ökar.

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Stora delar av arbetet sker internationellt

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Arbetet i de tekniska kommittéerna är öppet för alla svenska organisationer, företag, institutioner, myndigheter och statliga verk. Den årliga avgiften för deltagandet och intäkter från försäljning finansierar SEKs standardiseringsverksamhet och medlemsavgift till IEC och CENELEC.

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Du som vill dra nytta av dessa möjligheter är välkommen att kontakta SEKs kansli för mer information.

SEK Svensk Elstandard

Box 1284
164 29 Kista
Tel 08-444 14 00
www.elstandard.se

English version

**Sectional Specification:
Fixed low power film resistors**

Spécification intermédiaire:
Résistances couche fixes
à faible dissipation

Rahmenspezifikation:
Schicht-Festwiderstände
niedriger Belastbarkeit

This European Standard was approved by CENELEC on 2007-10-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 40XB, Resistors.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 140100 on 2007-10-01.

This European Standard supersedes EN 140100:1996 + A1:2001.

Compared to the superseded standard, the following changes have been implemented:

- modification of the title;
- introduction of a test on the resistance to electrostatic discharge;
- introduction of description and test methods for lead-free soldering;
- introduction of the code letters for temperature coefficient as given in EN 60062;
- adoption of the IECQ rules of procedure, QC 001002-3;
- editorial revision.

The preceding document on the subject covered by this specification has been CECC 40 100:1980.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2008-10-01
 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2010-10-01
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1 General

1.1 Scope

This sectional specification prescribes the preferred values for characteristics and ratings and also the inspection requirements for fixed film resistors of assessed quality. These resistors generally have wire terminations and are primarily intended to be mounted directly on to printed boards. It selects from the generic specification, EN 60115-1, the appropriate methods of test to be used in detail specifications derived from this specification.

Associated with this specification are one or more blank detail specifications each referenced by an EN number. A blank detail specification which has been completed as specified in 1.2 of this specification forms a detail specification. Such detail specifications may be used for the grant of Qualification approval and for the performance of Quality conformance inspection in accordance with an established quality assessment system (e.g. the IECQ-CECC system).

1.2 Information to be specified in the detail specification

Detail specifications shall be derived from the relevant blank detail specification.

Detail specifications shall not specify requirements inferior to those of the generic, sectional or blank detail specification. When more severe requirements are included, they shall be listed in a subclause of the detail specification and indicated in the test schedules, for example by an asterisk.

The following information shall be specified in each detail specification and the values quoted shall preferably be selected from those given in the appropriate clause of this document.

- | | |
|--|---|
| a) Outline drawing | There shall be an illustration of the resistor as an aid to easy recognition and for comparison of the resistor with others. Dimensions and their associated tolerances, which affect interchangeability and mounting, shall be given in the detail specification. |
| b) Style and dimensions | See 2.1.1.

The dimensions shall be given for the length and diameter of the body, using the provisions of IEC 60294, and for the diameter of the terminations. Where the configuration is other than cylindrical with axial terminations, the detail specification shall specify such dimensional information as will adequately describe the resistor.

The free termination length should be given for appropriate tape packing.

The mass of the products may be given for information. |
| c) Climatic category | See 2.1.2. |
| d) Limits of resistance change after testing | See 2.1.4. |
| e) Resistance range | See 2.2.1.

NOTE 1 When products approved to the detail specification may have different ranges, the following statement should be added: "The range of values available in each style is given in the register of approvals, available e.g. on the website www.iecq.org ." |
| f) Tolerances on rated resistance | See 2.2.2.

NOTE 2 When products approved to the detail specification may have different ranges, the following statement should be added: "The range of values available in each style is given in the register of approvals, available e.g. on the website www.iecq.org ." |
| g) Temperature coefficient of resistance | See 2.1.3.

For preferred combinations of temperature coefficient and tolerance on rated resistance see 2.2.7. |