



NSAI
Standards

Irish Standard
I.S. EN 140402:2015&A1:2016

Blank Detail Specification: Fixed low power wirewound surface mount (SMD) resistors

I.S. EN 140402:2015&A1:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 140402:2015/A1:2016

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

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National Foreword

I.S. EN 140402:2015&A1:2016 is the adopted Irish version of the European Document EN 140402:2015, Blank Detail Specification: Fixed low power wirewound surface mount (SMD) resistors

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD

EN 140402:2015/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

ICS 31.040.10

English Version

Blank Detail Specification: Fixed low power wirewound surface mount (SMD) resistors

Spécification particulière cadre: Résistances fixes bobinées
à faible dissipation pour montage en surface (CMS)

Vordruck für Bauartspezifikation: Oberflächenmontierbare
drahtgewickelte Festwiderstände (SMD) niedriger
Belastbarkeit

This amendment A1 modifies the European Standard EN 140402:2015; it was approved by CENELEC on 2016-09-19. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 140402:2015/A1:2016

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European foreword

This document (EN 140402:2015/A1:2016) has been prepared by CLC/TC 40XB "Resistors".

The following dates are fixed:

- latest date by which this document has (dop) 2017-09-19
to be implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2019-09-19
standards conflicting with this
document have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

EUROPEAN STANDARD

EN 140402

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2015

ICS 31.040.10

Supersedes EN 140402:1998

English Version

Blank Detail Specification: Fixed low power wirewound surface mount (SMD) resistors

Spécification particulière cadre: Résistances fixes bobinées à faible dissipation pour montage en surface (CMS)

Vordruck für Bauartspezifikation: Oberflächenmontierbare drahtgewickelte Festwiderstände (SMD) niedriger Belastbarkeit

This European Standard was approved by CENELEC on 2014-12-15. 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 CEN-CENELEC Management Centre or to any CENELEC member.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 140402:2015) has been prepared by CLC/TC 40XB, "Resistors".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-12-15
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2017-12-15

This document supersedes EN 140402:1998.

EN 140402:2015 includes the following significant technical changes with respect to EN 140402:1998:

- introduction of a test on the resistance to electrostatic discharge (ESD) in 1.7 and Annex A;
- introduction of code letters for the temperature coefficient (TCR) as in EN 60062:2005;
- revision of ordering information in 1.10.4;
- adoption of the IECQ rules of procedure according to QC 001002-3:2005;
- revision of the sample quantities and the sequence of tests in Annex A;
- editorial revision.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This specification supports the building of a series of documents describing fixed low power wire wound surface mount (SMD) resistors as follows:

- EN 60115-1, *Fixed resistors for use in electronic equipment — Part 1: Generic specification (IEC 60115-1, modified)*
- EN 60115-8, *Fixed resistors for use in electronic equipment — Part 8: Sectional specification — Fixed surface mount resistors (IEC 60115-8, modified)*
- EN 140402-8xx, *Detail specification: Fixed low power wirewound surface mount (SMD) resistors —*

Any detail specification within this series is written on the basis of this blank detail specification.

Introduction

Blank detail specification

A blank detail specification is a supplementary document to the sectional specification and contains requirements for style and layout and minimum content of detail specifications. Detail specifications not complying with these requirements should not be considered as being in accordance with European Standards nor should they be so described.

In the preparation of the detail specification the content of EN 60115-8:2012, 1.4 should be taken into account.

The detail specification should be written by using the preferred values given in EN 60115-8.

The detail specification should contain a table of contents prior the first page of the actual specification. For the use of SI units refer to EN ISO 80000-1, for the use of letter symbols to be used in electrical technology, refer to EN 60027-1.

This Blank Detail Specification uses two different kinds of notes:

- NOTE for notes which give additional information intended to assist the understanding or use of the resulting document and therefore should be copied as NOTE into the drafted Detail Specification.
- NOTE (ed) for editorial notes which are intended to aid and direct the specification writer and therefore should not be copied into the drafted Detail Specification.

Identification of the detail specification and the component

The first page of the detail specification should have the layout recommended on page 6.

The numbers in square brackets correspond to the indications to be completed thereunder:

- [1] the name of the Standardisation Organisation under whose authority the detail specification is published and if applicable, the organisation from whom the detail specification is available;
- [2] the CECC symbol and the number allocated to the detail specification by the CENELEC General Secretariat;
- [3] the number and issue number of the EN generic and sectional specification as relevant; also national reference if different;
- [4] the national number of the detail specification, date of issue and any further information required by the national system, together with any amendment numbers, if different from the EN number;
- [5] a brief description of the component or range of components;
- [6] information on typical construction (where applicable);
- [7] an outline drawing with the main dimensions which are of importance for interchangeability and/or reference to the appropriate national or international document for outlines. Alternatively, this drawing may be given in an annex to the detail specification;
- [8] the level of quality assessment covered by the detail specification.

For [5] and [6] the text to be given in the detail specification should be suitable for an entry in a register of approvals and the "CENELEC Catalogue of European Standards".

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