

SLOVENSKI STANDARD
SIST EN 140401-803:2008/A3:2017
01-maj-2017

Podrobna specifikacija: Fiksni folijski upori majhnih moči za površinsko montažo - Valjasti - Razredi stabilnosti 0,05; 0,1; 0,25; 0,5; 1; 2 - Dopnilo A3

Detail specification: Fixed low power film SMD resistors - Cylindrical - Stability classes 0,05; 0,1; 0,25; 0,5; 1; 2

Bauartspezifikation: SMD Schicht-Festwiderstände niedriger Belastbarkeit - Zylindrisch - Stabilitätsklassen 0,05; 0,1; 0,25; 0,5; 1; 2

Spécification particulière: Résistances couche fixes à faible dissipation CMS - Cylindriques - Classes de stabilité 0,05; 0,1; 0,25; 0,5; 1; 2

<https://standards.iteh.ai/catalog/standards/sist/0f2e496d-a32d-498a-977f-1f16d20496c0/sist-en-140401-803-2008-a3-2017>

Ta slovenski standard je istoveten z: EN 140401-803:2007/A3:2017

ICS:

31.040.10 Fiksni upor Fixed resistors

SIST EN 140401-803:2008/A3:2017 en

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EUROPEAN STANDARD

EN 140401-803:2007/A3

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2017

ICS 31.040.10

English Version

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This amendment A3 modifies the European Standard EN 140401-803:2007; it was approved by CENELEC on 2017-01-23. 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.

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

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European foreword

This document (EN 140401-803:2007/A3:2017) 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) 2018-01-23
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2020-01-23

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 amendment facilitates the following changes of the standard:

- clarification of the standard products covered by this detail specification to be manufactured with lead-free plated terminations, and identification of the option of special products under this detail specification with lead-bearing termination plating in 1.1, Table 1 and 1.9.4;
- Introduction of a new suffix for the ordering information of special products with lead-bearing termination plating, while maintaining the established ordering information for standard products in 1.9.4;
- Revision of the test conditions and schedule for standard products versus special products in 1.8.1 and Annex A, Table A.1.; [SIST EN 140401-803:2008/A3:2017](https://standards.iteh.ai/catalog/standards/sist/0f2e496d-a32d-498a-977f-1f1617340c76/sist-en-140401-803-2008-a3-2017)
<https://standards.iteh.ai/catalog/standards/sist/0f2e496d-a32d-498a-977f-1f1617340c76/sist-en-140401-803-2008-a3-2017>
- Revision of the application information on soldering for standard products versus special products in 1.10.3.

EN 140401-803:2007/A3:2017 (E)

1 Modification to 1.1

In Table 1, *insert the following note*

NOTE This specification supports the qualification of resistors with different types of plating on the solder terminations,

- a standard product with a lead-free termination plating, which typically is pure tin, and
- a special product with a lead-bearing termination plating, which is SnPb with the relative mass fraction of lead being not less than 3 %.

2 Modification to 1.8.1

Replace the 1st paragraph by

To prove the compatibility of resistors according to this specification with lead free solder, e.g. SnCu, SnCuNi, SnAg or SnAgCu, and with traditional SnPb solder, solderability of the standard products with lead-free termination plating shall be tested with both types of solder. Solderability of the special products with lead-bearing termination plating shall be tested with traditional SnPb solder only.

3 Modification to 1.9.4

Replace the subclause by

1.9.4 Ordering Information

Orders for resistors covered by this specification shall contain the following information:

- detail specification number; [SIST EN 140401-803:2008/A3:2017](https://standards.iteh.ai/catalog/standards/sist/0f2e496d-a32d-498a-977f-1fd6d20496c0/sist-en-140401-803-2008-a3-2017)
- assessment level;
- style;
- temperature coefficient;
- rated resistance;
- tolerance on rated resistance;
- failure rate level (only Version E, "E0" for Version A);
- special product with lead-bearing termination plating (no special designation for standard products with lead-free termination plating);
- form of delivery, packaging method (in addition to the ordering information given in the examples below).

Example of the ordering information for standard 33,2 kΩ resistors with lead-free termination plating:

Version A:	EN 140401–803EZRC3715MP33K2BE0
Version E (with failure rate level):	EN 140401–803EZRC3715MP33K2BE6

Example of the ordering information for special 33,2 kΩ resistors with lead-bearing termination plating:

Version A:	EN 140401–803EZRC3715MP33K2BE0 B
Version E (with failure rate level):	EN 140401–803EZRC3715MP33K2BE6 B

Example of the ordering information for standard 0 Ω resistors with lead-free termination plating:

Version A: EN 140401-803EZRC3715M-0R00-E0

Version E (with failure rate level): EN 140401-803EZRC3715M-0R00-E6

Example of the ordering information for special 0 Ω resistors with lead-bearing termination plating:

Version A: EN 140401-803EZRC3715M-0R00-E0**B**

Version E (with failure rate level): EN 140401-803EZRC3715M-0R00-E6**B**

The elements used in this ordering information have the following meaning:

EN 140401-803	Detail specification number
EZ	Assessment level
RC3715M	Style (see Table 1)
P	Temperature coefficient according to EN 60062 (see Table 4)
33K2	Resistance value, RKM code system according to EN 60062, 4 characters
B	Tolerance on rated resistance (see Table 3a or Table 3b)
E0; E6	Failure rate level according to EN 60115-1:2001 + A1:2001, Table ZB.1
B	Special product with lead-bearing SnPb termination plating (no designation for standard products with lead-free termination plating)

The ordering information used for electronic order processing shall not contain any spaces.

4 Modification to 1.10.3 (standards.iteh.ai)

Replace the 2nd paragraph by [SIST EN 140401-803:2008/A3:2017](https://standards.iteh.ai/catalog/standards/sist/0f2e496d-a32d-498a-977f-1d6d20496c0/sist-en-140401-803-2008-a3-2017)

For standard products with lead-free termination plating, this includes full compatibility with

- lead free solder, e.g. SnCu, SnCuNi, SnAg or SnAgCu,
- conventional SnPb solder.

For special products with lead-bearing termination plating, only compatibility with conventional SnPb solder applies.

5 Modification to Annex A

In Table A.1, 2nd occurrence of test 4.17, Solderability, **amend** the entry in column "Tests" with

(Only for standard resistors with lead-free termination plating)
