SLOVENSKI STANDARD

SIST EN 130800:2002/A1:2004

julij 2004

Sectional specification: Tantalum surface mounting capacitors - Amendment A1

ICS 31.060.40

Referenčna številka
SIST EN 130800:2002/A1:2004(en)

EUROPEAN STANDARD **EN 130800/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM August 2003

ICS 31.060.40

English version

Sectional Specification: Tantalum surface mounting capacitors

Spécification intermédiaire: Condensateurs au tantale pour montage en surface

Rahmenspezifikation: Oberflächenmontierbare Tantalkondensatoren

This amendment A1 modifies the European Standard EN 130800:2000; it was approved by CENELEC on 2003-03-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

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Ref. No. EN 130800:2000/A1:2003 E

Foreword

This amendment to the European Standard EN 130800:2000 was prepared by the Technical Committee CENELEC TC 40XA, Capacitors.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 130800:2000 on 2003-03-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2004-03-01

- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2006-03-01

2.2 Referred values of rating

Add a new subclause 2.2.7, which defines the categories “Standard” and “High CV” for capacitance drift and tangent of loss angle.

2.2.7 Categories for the selection of performance requirements

2.2.7.1 Capacitance drift

The requirements for the capacitance drift shall be given for rated values of capacitance:

$C_R \leq 330\mu F$

$C_R > 330\mu F$

2.2.7.2 Tangent of loss angle

The categories for the selection of tangent of loss angle limits are defined by the table below:

Case size	Standard category $C_R \times U_R$ / (µF x V)	High CV category $C_R \times U_R$ / (µF x V)
A	≤ 80	> 80
B	≤ 360	> 360
C	≤ 760	> 760
D	≤ 1 200	> 1 200
E	≤ 2 500	> 2 500

***TC Secretary's note**: Caused by the new definitions in 2.2.7, the following paragraphs of EN 130800 have to be changed:*

4.5.3.2 Requirement (tangent of loss angle)

Delete “0,06 for $C_R < 100\mu F$
0,08 for $C_R \geq 100\mu F$” and

replace by “Standard category 0,06 for $C_R < 100\mu F$
0,08 for $C_R \geq 100\mu F$
High CV category 0,10 for $C_R < 100\mu F$
0,15 for $C_R \geq 100\mu F$”

Annex C, Table C.1

Group 0

4.5.3 Tangent of loss angle

Delete “0,06 for $C_R < 100\ \mu F$
0,08 for $C_R \geq 100\ \mu F$” and

replace by “Standard category 0,06 for $C_R < 100\mu F$
0,08 for $C_R \geq 100\mu F$
High CV category 0,10 for $C_R < 100\mu F$
0,15 for $C_R \geq 100\mu F$”

Group 3

4.3 Mounting

Capacitance

Delete "$|\Delta C/C| \leq 3$ % of value measured in Group 0" and

Replace by " for $C_R \leq 330\mu F$ $|\Delta C/C| \leq 3\%$

for $C_R > 330\mu F$ $|\Delta C/C| \leq 5\%$ of value measured in Group 0 "

Group 3.1

4.10.3 Final measurements

Capacitance

Delete "$|\Delta C/C| \leq 5\%$ Style I

$\leq 10\%$ Style II of value measured in Group 3" and

replace by "for $C_R \leq 330\mu F$ $|\Delta C/C| \leq 5\%$

for $C_R > 330\mu F$ $|\Delta C/C| \leq 10\%$ of value measured in Group 3 "

Group 3.3

4.15.3 Final measurements

Capacitance

Delete "$|\Delta C/C| \leq 10\%$ of value measured in Group 3" and

replace by "for $C_R \leq 330\mu F$ $|\Delta C/C| \leq 10\%$

for $C_R > 330\mu F$ $|\Delta C/C| \leq 15\%$ of value measured in Group 3"

Group 3.4

4.13 Characteristics at low and high temperature

Step 2: Lower category temperature

Tangent of loss angle

Delete "$\leq 0{,}12$ for $C_R < 100\mu F$

$\leq 0{,}15$ for $C_R \geq 100\mu F$" and

replace by " Standard category $0{,}12$ for $C_R < 100\mu F$

$0{,}15$ for $C_R \geq 100\mu F$

High CV category $0{,}14$ for $C_R < 100\mu F$

$0{,}20$ for $C_R \geq 100\mu F$ "

Step 4: 85 °C

Tangent of loss angle

Delete "$\leq 0{,}12$ for $C_R < 100\mu F$

$\leq 0{,}15$ for $C_R \geq 100\mu F$" and

replace by "Standard category $0{,}12$ for $C_R < 100\mu F$

$0{,}15$ for $C_R \geq 100\mu F$

High CV category $0{,}14$ for $C_R < 100\mu F$

$0{,}20$ for $C_R \geq 100\mu F$ "

Step 5: 125 °C

Tangent of loss angle

Delete "≤ 0,15 for C_R < 100µF

≤ 0,2 for C_R ≥ 100µF" and

replace by "Standard category 0,15 for C_R < 100µF

0,20 for C_R ≥ 100µF

High CV category 0,18 for C_R < 100µF

0,24 for C_R ≥ 100µF"