

**Fixed capacitors for use in electronic equipment - Part  
26: Sectional specification - Fixed aluminium electrolytic  
capacitors with conductive polymer solid electrolyte**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60384-26:2010 sisaldab Euroopa standardi EN 60384-26:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.10.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 08.10.2010.

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This standard is ratified with the order of Estonian Centre for Standardisation dated 31.10.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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**Fixed capacitors for use in electronic equipment -  
Part 26: Sectional specification -  
Fixed aluminium electrolytic capacitors with conductive polymer solid  
electrolyte  
(IEC 60384-26:2010)**

Condensateurs fixes utilisés  
dans les équipements électroniques -  
Partie 26: Spécification intermédiaire -  
Condensateurs fixes électrolytiques  
en aluminium à électrolyte solide  
en polymère conducteur  
(CEI 60384-26:2010)

Festkondensatoren zur Verwendung  
in Geräten der Elektronik -  
Teil 26: Rahmenspezifikation -  
Aluminium-Elektrolyt-Kondensatoren  
mit leitfähigem Polymerfestkörper-  
Elektrolyten  
(IEC 60384-26:2010)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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## Foreword

The text of document 40/2052/FDIS, future edition 1 of IEC 60384-26, prepared by IEC TC 40, Capacitors and resistors for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60384-26 on 2010-10-01.

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

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level or publication of an identical  
national standard or by endorsement (dop) 2011-07-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2013-10-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60384-26:2010 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| IEC 60062:2004      | NOTE Harmonized as EN 60062:2004 (not modified).      |
| IEC 60384-4:2007    | NOTE Harmonized as EN 60384-4:2007 (not modified).    |
| IEC 60384-4-2:2007  | NOTE Harmonized as EN 60384-4-2:2007 (not modified).  |
| IEC 60384-25:2006   | NOTE Harmonized as EN 60384-25:2006 (not modified).   |
| IEC 60384-25-1:2006 | NOTE Harmonized as EN 60384-25-1:2006 (not modified). |

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| <u>Publication</u>        | <u>Year</u>          | <u>Title</u>                                                                                                                                      | <u>EN/HD</u>             | <u>Year</u> |
|---------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|
| IEC 60063<br>+ A1<br>+ A2 | 1963<br>1967<br>1977 | Preferred number series for resistors and capacitors                                                                                              | -                        | -           |
| IEC 60068-1               | 1988                 | Environmental testing -<br>Part 1: General and guidance                                                                                           | EN 60068-1 <sup>1)</sup> | 1994        |
| IEC 60068-2-14            | 2009                 | Environmental testing -<br>Part 2-14: Tests - Test N: Change of<br>temperature                                                                    | EN 60068-2-14            | 2009        |
| IEC 60068-2-20            | 2008                 | Environmental testing -<br>Part 2-20: Tests - Test T: Test methods for<br>solderability and resistance to soldering heat<br>of devices with leads | EN 60068-2-20            | 2008        |
| IEC 60384-1               | 2008                 | Fixed capacitors for use in electronic<br>equipment -<br>Part 1: Generic specification                                                            | EN 60384-1               | 2009        |
| IEC 60410                 | 1973                 | Sampling plans and procedures<br>for inspection by attributes                                                                                     | -                        | -           |

<sup>1)</sup> EN 60068-1 includes A1 to IEC 60068-1 + corr. October 1988.

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## FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

### Part 26: Sectional specification – Fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte

#### 1 General

##### 1.1 Scope

This part of IEC 60384 is applicable to aluminium electrolytic capacitors with conductive polymer solid electrolyte primarily intended for d.c. applications for use in electronic equipment.

NOTE Aluminium electrolytic capacitors with solid ( $\text{MnO}_2$ ) are covered by IEC 60384-4 and IEC 60384-4-2. Surface mount aluminium electrolytic capacitors with conductive polymer solid electrolyte are covered by IEC 60384-25 and IEC 60384-25-1.

##### 1.2 Object

The object of this standard is to prescribe preferred ratings and characteristics and to select from IEC 60384-1, the appropriate quality assessment procedures, tests and measuring methods and to give general performance requirements for this type of capacitor. Test severities and requirements prescribed in detail specifications referring to this sectional specification shall be of equal or higher performance level, lower performance levels are not permitted.

##### 1.3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60063:1963, *Preferred number series for resistors and capacitors*  
Amendment 1 (1967)  
Amendment 2 (1977)

IEC 60068-1:1988, *Environmental testing – Part 1: General and guidance*<sup>1</sup>

IEC 60068-2-14:2009, *Environmental testing – Part 2-14: Tests – Test N: Change of temperature*

IEC 60068-2-20:2008, *Environmental testing – Part 2-20: Tests – Test T – Test methods for solderability and resistance to soldering heat of devices with leads*

IEC 60384-1:2008, *Fixed capacitors for use in electronic equipment – Part 1: Generic specification*

IEC 60410:1973, *Sampling plans and procedures for inspection by attributes*

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<sup>1</sup> For the tests in the IEC 60068 series of publication, the editions referenced in the applicable test clauses of the generic specification shall be used.