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Elektronikkomponenter – Fasta kondensatorer – Del 20: Gruppsspecifikation för kondensatorer med dielektrikum av metalliserad polyetensulfid (PPS), för likspänning

Fixed capacitors for use in electronic equipment –

Part 20: Blank detail specification –

Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors

Som svensk standard gäller europastandarden EN 60384-20:2008. Den svenska standarden innehåller den officiella engelska språkversionen av EN 60384-20:2008.

Nationellt förord

Europastandarden EN 60384-20:2008

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 60384-20, Second edition, 2008 - Fixed capacitors for use in electronic equipment - Part 20: Blank detail specification - Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors**

jämte

Corrigendum, February 2008

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 60384-20, utgåva 1, 1999, gäller ej fr o m 2011-02-01.

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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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**Fixed capacitors for use in electronic equipment -
Part 20: Sectional specification -
Fixed metallized polyphenylene sulfide film
dielectric surface mount d.c. capacitors
(IEC 60384-20:2008 + corrigendum 2008)**

Condensateurs fixes utilisés
dans les équipements électroniques -
Partie 20: Spécification intermédiaire -
Condensateurs fixes pour montage
en surface pour courant continu
à diélectrique en film de sulfure
de polyphénylène métallisé
(CEI 60384-20:2008 +
corrigendum 2008)

Festkondensatoren zur Verwendung
in Geräten der Elektronik -
Teil 20: Rahmenspezifikation -
Oberflächenmontierbare
Festkondensatoren für Gleichspannung
mit metallisierter Polyphenyl-Sulfid-Folie
als Dielektrikum
(IEC 60384-20:2008 +
Corrigendum 2008)

This European Standard was approved by CENELEC on 2008-02-01. 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

The text of document 40/1871/FDIS, future edition 2 of IEC 60384-20, 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 60384-20 on 2008-02-01.

This European Standard supersedes EN 60384-20:1999.

EN 60384-20:2008 constitutes a minor revision related to tables and references.

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) | 2008-11-01 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2011-02-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60384-20:2008 + corrigendum February 2008 was approved by CENELEC as a European Standard without any modification.

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 60062	- ¹⁾	Marking codes for resistors and capacitors	EN 60062 + corr. January	2005 ²⁾ 2007
IEC 60063	- ¹⁾	Preferred number series for resistors and capacitors	-	-
IEC 60068-1	- ¹⁾	Environmental testing - Part 1: General and guidance	EN 60068-1	1994 ²⁾
IEC 60384-1 (mod)	1999	Fixed capacitors for use in electronic equipment - Part 1: Generic specification	EN 60384-1 + corr. October	2001 2001
IEC 60410	- ¹⁾	Sampling plans and procedures for inspection - by attributes		-
ISO 3	- ¹⁾	Preferred numbers - Series of preferred numbers	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –

Part 20: Sectional specification – Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors

1 General

1.1 Scope

This part of IEC 60384 is applicable to fixed surface mount capacitors for direct current, with metallized electrodes and polyphenylene sulfide dielectric for use in electronic equipment. These capacitors have metallized connecting pads or soldering strips and are intended to be mounted directly onto substrates for hybrid circuits or onto printed boards. These capacitors may have "self-healing properties" depending on conditions of use. They are primarily intended for applications where the a.c. component is small with respect to the rated voltage.

Capacitors for radio interference suppression are not included, but are covered by IEC 60384-14.

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 60062, *Marking codes for resistors and capacitors*

IEC 60063, *Preferred number series for resistors and capacitors*

IEC 60068-1, *Environmental testing – Part 1: General and guidance*

NOTE For the tests in the IEC 60068 series of publications, the editions referenced in the applicable test clauses of the generic specification are applicable.

IEC 60384-1:1999, *Fixed capacitors for use in electronic equipment – Part 1: Generic specification*

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

ISO 3, *Preferred numbers - Series of preferred numbers*



**Fixed capacitors for use in electronic equipment –
Part 20: Sectional specification – Fixed metallized polyphenylene
sulfide film dielectric surface mount d.c. capacitors**

CORRIGENDUM 1

Page 23

4.11.2

The first row “Category” and the second row “Temperature” has to be amended by adding to “100 °C” “or 105 °C”, as follows:

Table 9 – Endurance test Grade 1, Grade 2 and Grade 3 capacitors

Category	–/100 or 105/–	–/125/–		–/155/–	
Temperature	100 °C or 105 °C	125 °C	100 °C or 105 °C	155 °C	100 °C or 105 °C
Voltage (d.c.)	1,25 U_R	1,25 U_C	1,25 U_R	1,25 U_C	1,25 U_R
Sample part divided into	1 part	2 parts		2 parts	

February 2008