SLOVENSKI STANDARD

SIST EN 60384-20-1:2002

prva izdaja
september 2002

Fixed capacitors for use in electronic equipment - Part 20: Sectional specification: Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors - Assessment level EZ (IEC 60384-20-1:1996)

ICS 31.060.10

Referenčna številka
SIST EN 60384-20-1:2002(en)

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60384-20-1

February 1999

ICS 31.060.20

Descriptors: Fixed capacitors, surface mount d.c. capacitors, metallized polyphenylene, sulfide film dielectric, blank detail specification, assessment level EZ

English version

Fixed capacitors for use in electronic equipment Part 20: Blank detail specification: Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors - Assessment level EZ (IEC 60384-20-1:1996)

Condensateurs fixes utilisés dans les équipements électroniques
Partie 20:
Spécification particulière cadre:
Condensateurs fixes pour montage en surface pour courant continu à diélectrique en film de sulfure de polyphénylène métallisé
Niveau d'assurance EZ
(CEI 60384-20-1:1996)

Festkondensatoren zur Verwendung in Geräten der Elektronik
Teil 20: Vordruck für Bauartspezifikation:
Oberflächenmontierbare Festkondensatoren mit metallisierter Polyphenyl-Sulfid-Folie als Dieliktrikum für Gleichspannung
Bewertungsstufe EZ
(IEC 60384-20-1:1996)

This European Standard was approved by CENELEC on 1999-01-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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 the International Standard IEC 60384-20-1:1996, prepared by IEC TC 40, Capacitors and resistors for electronic equipment, was submitted to the formal vote and was approved by CENELEC as EN 60384-20-1 on 1999-01-01 without any modification.

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) 2000-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2000-01-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60384-20-1:1996 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

Publication	Year	Title	EN/HD	Year
IEC 60384-1	1982	Fixed capacitors for use in electronic equipment Part 1: Generic specification	-	-
A2	1987		-	-
A3	1989		-	-
A4	1992		-	-
IEC 60384-20	1996	Part 20: Sectional specification: Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors	EN 60384-20	1999

NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
384-20-1

QC 302001

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First edition
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Condensateurs fixes utilisés dans les équipements électroniques –

Partie 20:
Spécification particulière-cadre:
Condensateurs fixes chipses pour courant continu à diélectrique en film de sulfure de polyphénylène métallisé
Niveau d'assurance EZ

Fixed capacitors for use in electronic equipment –

Part 20:
Blank detail specification:
Fixed metallized polyphenylene sulfide film dielectric chip d.c. capacitors
Assessment level EZ

Bureau central de la Commission Electrotechnique Internationale 3, rue de Varembé Genève Suisse

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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For price, see current catalogue

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT PART 20: BLANK DETAIL SPECIFICATION: FIXED METALLIZED POLYPHENYLENE SULFIDE FILM DIELECTRIC D.C. CHIP CAPACITORS ASSESSMENT LEVEL EZ

FOREWORD

1) The IEC (International Electrotechnical Commission) is a world-wide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus on the subjects dealt with.

3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.

4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and their corresponding national or regional standard shall be clearly indicated in the latter.

5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

6) Attention is drawn to the possibility that some of the elememts of this International Standard may be the subject of patent rights. IEC shall not be held resposible for identifying any or all such patent rights.

International Standard IEC 384-20 has been prepared by IEC technical committee 40: Capacitors and Resistors for Electronic Equipment.

This standard is intended for use in the IEC Quality Assessmnet System for Electronic Components (IECQ).

The opreation of the IECQ is governed by IEC QC 001001 and IEC QC001002. Specifications written for the components assessed under this scheme, and their use in the scheme, are the subject of IEC Guide 102.

The text of this standard is based upon the following documents:

DIS	Report on Voting
40/783/FDIS	40/822/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

The QC number that appears on the front cover of this publication is the specifiaction number in the IECQ System.

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT
PART 20: BLANK DETAIL SPECIFICATION:
FIXED METALLIZED POLYPHENYLENE SULFIDE FILM DIELECTRIC CHIP D.C. CAPACITORS
ASSESSMENT LEVEL EZ

INTRODUCTION

Blank detail specification

A blank detail specification is a supplementary document to the Sectional Specification and contains requirements for style, layout and minimum content of detail specifications. Detail specifications not complying with these requirements may not be considered as being in accordance with IEC specifications nor shall they so be described.

In the preparation of detail specifications the content of 1.4 of the sectional specification shall be taken into account.

The numbers between brackets on the first page correspond to the following information which shall be inserted in the position indicated.

Identification of the detail specification

(1) The "International Electrotechnical Commission" or the National Standards Organisation under whose authority the detail specification is drafted.

(2) The IEC or National Standards number of the detail specification, date of issue and any further information required by the national system.

(3) The number and issue number of the IEC or national Generic Specification.

(4) The IEC number of the blank detail specification.

Identification of the capacitor

(5) A short description of the type of capacitor.

(6) Information on typical construction (when applicable).

(7) Outline drawing with main dimensions which are of importance for interchangeability and/or reference to the national or international documents for outlines. Alternatively, this drawing may be given in an appendix to the detail specification.

(8) Application or group of applications covered and/or assessment level.

Note. -The assessment level(s) to be used in a detail specification shall be selected from the sectional specification, 3.5.4. This implies that one blank detail specification may be used in combination with several assessment levels, provided the grouping of the tests does not change.

(9) Reference data on the most important properties, to allow comparison between the various capacitor types.

(1)	IEC 384-20-1XX QC 302001XXXXXX (2)
ELECTRONIC COMPONENTS OF ASSESSED QUALITY IN ACCORDANCE WITH:	IEC 384-20-1 QC 302001 (4)
(3)	FIXED METALLIZED POLYPHENYLENE SULFIDE FILM DIELECTRIC CHIP D.C. CAPACITORS (5)
Outline drawing: (see Table 1) (... angle projection) (7) (Other shapes are permitted within the dimensions given)	(6)
	Assessment level(s): EZ (8)

Information on the availability of components qualified to this detail specification is given in the Register of Approvals.

(9)

SECTION ONE - GENERAL DATA

1. GENERAL DATA

1.1 Recommended method(s) of mounting (to be inserted)

(See 1.4.2 of IEC 384-20).

1.2 **Dimensions**

Table 1

Case size reference	Dimensions (in mm or inches and mm)						
	L_1	W_1	H_1	L_2	L_3	L_4	...

Notes 1. -When there is no case size reference, Table 1 may be omitted and the dimensions shall be given in Table 2, which then becomes Table 1.

2. -The dimensions shall be given as maximum dimensions or as nominal dimensions with a tolerance.

1.3 **Ratings and characteristics**

Capacitance range	(see Table 2)
Tolerance on rated capacitance	
Rated voltage	(see Table 2)
Category voltage (if applicable)	(see Table 2)
Climatic category	
Rated voltage	
Max. a.c. voltage (if applicable)	
Max pulse load (if applicable)	
Tangent of loss angle	
Insulation resistance	

Table 2

Values of capacitance and of voltage related to case sizes

Rated voltage				
Category voltage [1]				
	Case size	Case size	Case size	Case size
Rated capacitance (in nF and/or µF)				

[1] If different from the rated voltage.