

INTERNATIONAL STANDARD

QC 302000

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



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CONTENTS

FOREWORD.....	4
1 General	6
1.1 Scope.....	6
1.2 Object	6
1.3 Normative references	6
1.4 Information to be given in a detail specification	6
1.4.1 Outline drawing and dimensions	7
1.4.2 Mounting	7
1.4.3 Ratings and characteristics.....	7
1.4.4 Marking	7
1.5 Terms and definitions	8
1.6 Marking	8
2 Preferred ratings and characteristics	9
2.1 Preferred characteristics	9
2.1.1 Preferred climatic categories	9
2.2 Preferred values of ratings	9
2.2.1 Rated capacitance (C_R)	9
2.2.2 Tolerance on rated capacitance	9
2.2.3 Rated voltage (U_R)	10
2.2.4 Category voltage (U_C)	10
2.2.5 Rated temperature.....	10
3 Quality assessment procedures	10
3.1 Primary stage of manufacture.....	10
3.2 Structurally similar components.....	10
3.3 Certified records of released lots.....	10
3.4 Qualification approval.....	10
3.4.1 Qualification approval on the basis of the fixed sample size procedure	10
3.4.2 Tests	11
3.5 Quality conformance inspection.....	16
3.5.1 Formation of inspection lots.....	16
3.5.2 Test schedule	17
3.5.3 Delayed delivery	17
3.5.4 Assessment levels.....	17
4 Test and measurement procedures.....	18
4.1 Mounting	18
4.2 Visual examination and check of dimensions	18
4.2.1 Visual examination	18
4.2.2 Requirements	18
4.3 Electrical tests.....	18
4.3.1 Voltage proof.....	18
4.3.2 Capacitance	19
4.3.3 Tangent of loss angle ($\tan \delta$)	19
4.3.4 Insulation resistance.....	20
4.4 Adhesion	21

4.5	Bond strength of the end of plating	21
4.5.1	Initial measurement	21
4.5.2	Final inspection	21
4.6	Resistance to soldering heat	21
4.6.1	Initial measurement	21
4.6.2	Test conditions	21
4.6.3	Final inspection, measurements and requirements	21
4.7	Solderability	22
4.7.1	Test conditions	22
4.7.2	Final inspection, measurements and requirements	22
4.8	Rapid change of temperature	22
4.8.1	Initial measurements	22
4.8.2	Number of cycles: 5.....	22
4.8.3	Intermediate inspection	22
4.9	Climatic sequence	22
4.9.1	Initial measurements	22
4.9.2	Dry heat	22
4.9.3	Damp heat, cyclic, test Db, first cycle	22
4.9.4	Cold	22
4.9.5	Damp heat, cyclic, test Db, remaining cycles	23
4.9.6	Final inspection, measurements and requirements	23
4.10	Damp heat, steady state.....	23
4.10.1	Initial measurements	23
4.10.2	Final inspection, measurements and requirements	23
4.11	Endurance.....	23
4.11.1	Initial measurements	23
4.12	Charge and discharge	24
4.12.1	Initial measurements	24
4.13	Component solvent resistance (if applicable).....	24
4.14	Solvent resistance of the marking (if applicable).....	24
Table 1 – Fixed sample size test plan for qualification approval – Assessment level EZ.....		12
Table 2 – Test schedule for qualification approval.....		13
Table 3 – Lot-by-lot inspection		17
Table 4 – Periodic tests		18
Table 5 – Test voltages.....		19
Table 6 – Tangent of loss angle limits.....		20
Table 7 – Requirements insulation resistance		20
Table 8 – Correction factor dependent on test temperature.....		21
Table 9 – Endurance test Grade 1, Grade 2 and Grade 3 capacitors.....		23

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT –**Part 20: Sectional specification –
Fixed metallized polyphenylene sulfide film
dielectric surface mount d.c. capacitors**

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International Standard IEC 60384-20 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This second edition cancels and replaces the first edition published in 1996 and constitutes a minor revision related to tables and references.

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

FDIS	Report on voting
40/1871/FDIS	40/1888/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The list of all parts of the IEC 60384 series, under the (new) general title *Fixed capacitors for use in electronic equipment*, can be found on the IEC website.

The QC number that appears on the front cover of this publication is the specification number in the IECQ Quality Assessment System for Electronic Components.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

The contents of the corrigendum of February 2008 have been included in this copy.

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*

1.4 Information to be given in a detail specification

Detail specifications shall be derived from the relevant blank detail specification.