INTERNATIONAL **STANDARD**

IEC 60384-19-1

QC 302201 Second edition 2006-01

Fixed capacitors for use in electronic equipment -

Part 19-1:

Blank detail specification -Fixed metallized polyethylene-terephthalate film dielectric surface mount d.c. capacitors Assessment level EZ

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International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT -

Part 19-1: Blank detail specification – Fixed metallized polyethyleneterephthalate film dielectric surface mount d.c. capacitors – Assessment level EZ

FOREWORD

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International Standard IEC 60384-19-1 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 1993 and constitutes minor revisions related to tables, figures and references.

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

FDIS	Report on voting		
40/1623/FDIS	40/1646/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.

IEC 60384 consists of the following parts, under the general title *Fixed capacitors for use in electronic equipment*:

- Part 1: Generic specification
- Part 2: Sectional specification: Fixed metallized polyethylene-terephthalate film dielectric d.c. capacitors
- Part 3: Sectional specification: Fixed tantalum surface mount capacitors
- Part 4: Sectional specification: Aluminium electrolytic capacitors with solid and non-solid electrolyte
- Part 5: Sectional specification: Fixed mica dielectric d.c. capacitors with a rated voltage not exceeding 3000 V Selection of methods of test and general requirements
- Part 6: Sectional specification: Fixed metallized polycarbonate film dielectric d.c. capacitors
- Part 8: Sectional specification: Fixed capacitors of ceramic dielectric, Class 1
- Part 9: Sectional specification: Fixed capacitors of ceramic dielectric, Class 2
- Part 11: Sectional specification: Fixed polyethylene-terephthalate film dielectric metal foil d.c. capacitors
- Part 12: Sectional specification: Fixed polycarbonate film dielectric metal foil d.c. capacitors
- Part 13: Sectional specification: Fixed polypropylene film dielectric metal foil d.c. capacitors
- Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains
- Part 15: Sectional specification: Fixed tantalum capacitors with non-solid or solid electrolyte
- Part 16: Sectional specification: Fixed metallized polypropylene film dielectric d.c. capacitors
- Part 17: Sectional specification: Fixed metallized polypropylene film dielectric a.c. and pulse capacitors
- Part 18: Sectional specification: Fixed aluminium electrolytic surface mount capacitors with solid and non-solid electrolyte
- Part 19: Sectional specification: Fixed metallized polyethylene-terephthalate film dielectric surface mount d.c. capacitors
- Part 20: Sectional specification: Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors
- Part 21: Sectional specification: Fixed surface mount multilayer capacitors of ceramic dielectric, Class 1
- Part 22: Sectional specification: Fixed surface mount multilayer capacitors of ceramic dielectric, Class 2
- Part 23: Sectional specification Fixed surface mount metallized polyethylene naphthalate film dielectric DC capacitors
- Part 24: Sectional specification Surface mount fixed tantalum electrolytic capacitors with conductive polymer solid electrolyte ¹
- Part 25: Sectional specification Surface mount fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte¹

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.

¹ To be published.

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 edition of this blank detail specification may be issued at a later date.

FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT -

Part 19-1: Blank detail specification – Fixed metallized polyethyleneterephthalate film dielectric surface mount d.c. capacitors – Assessment level EZ

Blank detail specification

A blank detail specification is a supplementary document to the sectional specification and contains requirements for style and 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 Organization 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).
 - When the capacitor is not designed for use in printed-board applications, this shall be clearly stated in the detail specification in this position.
- [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 annex 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 are selected from 3.5.4 of the sectional specification. 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.

	IEC 60384-19-1-XXX	[2]
[1]	QC 302201-XXX	[-]
ELECTRONIC COMPONENTS OF ASSESSED	IEC 60384-19-1	[4]
QUALITY IN ACCORDANCE WITH:	QC 302201	
	FIXED METALLIZED	[5]
[3]	POLYETHYLENE-TEREPHTHALATE	
	FILM DIELECTRIC DC SURFACE MOUNT	
Outline drawing: (see Table 1)	CAPACITORS	
[angle projection]		
		[6]
[7]		
	Assessment level(s): EZ	[8]
[Other shapes are permitted within the dimensions given.]		

Information on the availability of components qualified to this detail specification is given in IEC QC 001005

(9)

1 General data

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

See IEC 60384-19, 1.4.2

1.2 Dimensions

Table 1 - Case size reference and dimensions

Case size	Dimensions						
reference	mm						
	L_1	W_1	H_1	L_2	L_3	L_4	
	max	max	max			min	

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.

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 temperature

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 ^a					
	Case size	Case size	Case size	Case size	
Rated capacitance					
(in nF and/or μF)					
^a If different from the rated voltage.					

1.4 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 60384-1, Fixed capacitors for use in electronic equipment – Part 1: Generic specification

IEC 60384-19, Fixed capacitors for use in electronic equipment — Part 19: Sectional specification Fixed metallized polyethylene-terephthalate film dielectric surface mount d.c. capacitors

IEC 60410, Sampling plans and procedures for inspection by attributes