# INTERNATIONAL STANDARD

# IEC 60738-1-1

QC 440001

Second edition 1998-12

Thermistors -

Directly heated positive step-function temperature coefficient

Part 1-1:

Blank detail specification

Current limiting application - Assessment level EZ

Thermistances à basculement à coefficient de température positif à chauftage direct –

Partie 1-1:

Spécification particulière cadre - 0-0ad46386d0a5/iec-60738-1-1-1998

Application pour limitation de courant -

Niveau d'assurance EZ



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- VEC Bulletin

  Available both at the VEC web site\* and as a printed periodical

### Terminology, graphical and letter symbols

For general terminology, readers are referred to IEC 60050: International Electrolechnical Vocabulary (IEV).

For graphical symbols, and letter symbols and signs approved by the IEC for general use, readers are referred to publications IEC 60027: Letter symbols to be used in electrical technology, IEC 60417: Graphical symbols for use on equipment. Index, survey and compilation of the single sheets and IEC 60617: Graphical symbols for diagrams.

\* See web site address on title page.

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International Electrotechnical Commission 3, rue de Varembé Geneva, Switzerland Telefax: +41 22 919 0300 e-mail: inmail@iec.ch IEC web site http://www.iec.ch



Commission Electrotechnique Internationale International Electrotechnical Commission Международная Электротехническая Комиссия

PRICE CODE

For price, see current catalogue

### INTERNATIONAL ELECTROTECHNICAL COMMISSION

### THERMISTORS -

# DIRECTLY HEATED POSITIVE STEP-FUNCTION TEMPERATURE COEFFICIENT –

Part 1-1: Blank detail specification –

Current limiting application – Assessment level EZ

#### **FOREWORD**

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation 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.
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International Standard IEO 60738-1-1 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 1982.

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

FDIS	Report on voting
40/1081/FDIS	40/1097/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 specification number in the IEC Quality Assessment System for Electronic Components (IECQ).

#### THERMISTORS -

# DIRECTLY HEATED POSITIVE STEP-FUNCTION TEMPERATURE COEFFICIENT –

## Part 1-1: Blank detail specification -

## Current limiting application – Assessment level EZ

#### INTRODUCTION

### Blank detail specification

A blank detail specification is a supplementary document to the generic specification and contains requirements for style and layout and minimum content of detail specifications. Detail specifications not complying with these requirements shall 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 generic 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 thermistor

- [5] A short description of the type of thermistor.
- [6] Information on typical construction (if applicable).

NOTE – When the thermistor is not designed for use on printed boards, this should clearly be 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.
- [9] Reference data on the most important properties, to allow comparison between the various thermistor types.

[1]	IEC 60738-1-1-XXX [2]
	QC 440001XXXXXX
ELECTRONIC COMPONENTS OF ASSESSED	IEC 60738-1-1 [4]
QUALITY IN ACCORDANCE WITH:	QC 440001
[3]	DIRECTLY HEATED POSITIVE
	STEP-FUNCTION TEMPERATURE
	COEFFICIENT THERMISTORS (5)
Outline drawing: [see 1.2]	FOR CURRENT LIMITING
[ angle projection]	APPLICATION
	MODIFIED FERRO-ELECTRIC [6]
[7]	CERAMIC MATERIAL
[Other shapes are permitted within the dimensions given]	
	Assessment level: EZ [8]
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Information on the availability of components qualified to this detail specification is given in the Register of Approvals.

[9]

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tandads/Ac/7e3d275-990f-431f-a29c-0ad46386d0a5/iec-60738-1-1-199

### 1 General dața

# 1.1 Method(s) of mounting (to be inserted)

(See 4.12.1 of IEC 60738-1.)

### 1.2 Dimensions

(All dimensions are in millimetres or inches and millimetres; it shall be stated which dimensions are suitable for gauging.)

Dimensioned drawing(s) shall be given in the detail specification. If necessary, the dimensions may be listed in tabular form with reference to styles or codes.

### 1.3 Coating

The detail specification shall state:

- a) whether the coating is insulating or non-insulating;
- b) the material;
- c) the colour, if applicable.