



Technical Report of Japan Electronics and Information Technology Industries Association

JEITA RCR-2367D

**Safety application guide
for fixed aluminium electrolytic capacitors
for use in electronic equipment**

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Contents

	page
Introduction	
1 Scope	1
2 Related document	1
3 Terms and definitions	2
4 Aluminium electrolytic capacitors	2
4.1 The main features	2
4.2 Principle	4
4.2.1 Basics of capacitors	4
4.2.2 Functional principle	5
4.3 Equivalent circuit	6
4.4 Fundamental characteristics	7
4.4.1 Electric characteristics of non-solid type electrolytic capacitors	7
4.4.2 Electric characteristics of solid type electrolytic capacitors	8
4.5 Comparison of electrolytic capacitors with other types of capacitors	9
4.5.1 Comparison of capacitance ranges of various capacitors	9
4.5.2 Comparison of shapes and characteristics	9
4.6 Appearance and internal structure	10
4.6.1 Appearance	10
4.6.2 Internal structure	11
4.7 Manufacturing process (typical)	12
5 Selection of aluminium electrolytic capacitors and failure modes	13
5.1 Selection	13
5.2 Selection based on operating conditions	13
5.3 Selection based on shapes and assembly conditions	13
5.4 Factors to be considered in selection and failure modes	14
5.5 Case study of selection of capacitors	16
6 Design	19
6.1 Climatic factors	19
6.1.1 Temperature in operating environment 1 (general)	19
6.1.2 Temperature in operating environment 2 (life when used below upper category temperature)	20
6.1.3 Temperature in operating environment 3 (life when used above the upper category temperature)	21
6.1.4 Temperature dependent characteristics	22
6.1.5 Atmosphere surroundings (gaseous and liquid)	23
6.1.6 Exposure to irradiation	24

6.2 Electrical factors	25
6.2.1 Applied voltage and current (general)	25
6.2.2 Applied voltage (over voltage)	26
6.2.3 Applied voltage (reverse voltage)	27
6.2.4 Charge and discharge current and a.c. voltage	28
6.2.5 Ripple current	29
6.2.6 Pulse current and voltage	30
6.2.7 Frequency dependent characteristics	31
6.2.8 Insulation of capacitors	32
6.2.9 Insulation of enclosure	33
6.3 Mechanical factors	34
6.3.1 Vibration and shock	34
6.3.2 Tensile, pushing and bending strength	35
7 Mounting	36
7.1 Specification for design of printed wiring board	36
7.1.1 Design of printed wiring board 1	36
7.1.2 Design of printed wiring board 2	37
7.2 Mounting environment	38
7.3 Handling of capacitors before mounting	39
7.4 Handling of capacitors in mounting	40
7.4.1 Mounting 1	40
7.4.2 Mounting 2	41
7.5 Soldering conditions	42
7.5.1 Soldering iron	42
7.5.2 Flow soldering	43
7.5.3 Reflow soldering 1	44
7.5.4 Reflow soldering 2	45
7.5.5 Handling of capacitors after soldering	46
7.6 Cleaning of printed wiring board	47
7.6.1 Cleaning of printed wiring board 1	47
7.6.2 Cleaning of printed wiring board 2	48
7.6.3 Cleaning of printed wiring board 3	49
7.7 Fixing and coating materials	50
7.8 Work to the board after mounting	51
8 Caution under operation of equipment	52
8.1 While the equipment is in operation	52
8.2 Maintenance	53
9 Handling transportation and storage	54
9.1 Handling (transport and storage of capacitors)	54
9.2 Handling (transport and storage of capacitor assembled board and equipment)	55

10 Safety and environment	56
10.1 In an emergency	56
10.2 Disposal of waste	57
11 Solid type aluminium electrolytic capacitors	58
11.1 Environment	58
11.1.1 Use environment (general)	58
11.1.2 Environmental temperature (reliability for operation in the category temperature range)	59
11.1.3 Environmental temperature (case the temperature exceeds the category temperature)	60
11.2 Electric factors	61
11.3 Mechanical factors	62
11.4 Factors in assemble process	63
11.4.1 Design of and mounting on the printed wiring board (general)	63
11.4.2 Reflow soldering	64
11.5 Management and maintenance of production machines, general consideration, and safety and environmental issues	65
Annex A (informative) Ripple current and calculation of estimated life of capacitors	66
Annex B (informative) Temperature profile of soldering using lead-free solder	73
Annex C (informative) Failure and failure rate	74

Introduction

This **JEITA** technical report was prepared based on **JEITA RCR-1001A**, “Safety application guide on components for use in electronic and electrical equipment” developed by the Electrolytic Capacitor and Film Capacitor Group of the Technical Standardization Working Group on Passive Components of the Japan Electronics and Information Technology Industries Association (**JEITA**). This document is prepared as the revision of **EIAJ RCR-2367C**, published in 1995 and revised in 2006 “Safety Application Guide for fixed aluminium electrolytic capacitors for use in electronic equipment”. This document includes **JEITA RCR-2367D Amendment 1**.

This revised document describes key issues based on the information kindly supplied by component manufacturers in Japan to be observed in application of aluminium electrolytic capacitors. It is recommended that this document should be used together with **JEITA RCR-1001A** describing the basic consideration on safe use of electronic components.

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Technical Report of Japan Electronics and Information Technology Industries Association

Safety application guide for fixed aluminium electrolytic capacitors for use in electronic equipment

1 Scope

This **JEITA** technical report is applicable to the d.c. aluminium electrolytic capacitors for use in electronic equipment. The objective is equipment manufactures to adopt safety consciousness in design, manufacturing of equipment and also operation of the equipment in the field. This document may also be used as reference to describe the safety matter in product specification and a part of technical information for component suppliers. This document only provides the information of approaches to the safety of electronic components, better ways and recommended points on the use of electronic components for the purpose of improving safety of the electronic equipment. This document, therefore, shall not assure the product safety of applied electronic components and electronic equipment even when applications comply fully with this guideline.

The same consideration described in this document is also applicable to electronic capacitors used in d.c. applications including to automotive electronic systems, various industrial equipment and systems and cameras equipped with electronic flash. As for aluminium electrolytic capacitor for use in a.c. circuits such as motor starting, this document precludes any possibility of that because the application is different.

Note 1 It is necessary to consult with component suppliers about the application to the medical, nuclear and aero-space equipment.

Note 2 The safety related standards and etc. applied to electric and electronic equipment are as follows:

- a) **JIS C 6065, IEC 60065** (Audio-visual)
- b) **JIS C 6950-1, IEC 60950-1** (Information technology)
- c) **JIS C 9335-1, IEC 60335-1** (Household appliances)
- d) **JIS C 62368-1, IEC 62368-1** (Audio/video, information and communication)
- e) **Safety rules for electric products and alliances**

2 Related document

The references listed below are normative references and must be referred to their contents as complementary information to this document. The latest issues of the documents should be referred to the documents whose publication dates are not specified.

EIAJ ET-7405	Test methods of ultrasonic cleaning exposure of surface mounting devices
JEITA RC-2371A	Recommended outlines of fixed solid and non-fixed electrolyte electrolytic capacitors for use in electronic equipment
JEITA RCR-1001A	Safety application guide on components for use in electronic and electrical equipment