



JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

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**JIS C 5101-4-2** : 2010

(IEC 60384-4-2 : 2007)

(JEITA/JSA)

**Fixed capacitors for use in electronic equipment—Part 4-2: Blank detail specification—Fixed aluminium electrolytic capacitors with solid (MnO<sub>2</sub>) electrolyte—Assessment level EZ**

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ICS 31.060.50

Reference number : JIS C 5101-4-2 : 2010 (E)

C 5101-4-2 : 2010 (IEC 60384-4-2 : 2007)

Date of Establishment: 1998-07-20

Date of Revision: 2010-06-21

Date of Public Notice in Official Gazette: 2010-06-21

Investigated by: Japanese Industrial Standards Committee  
Standards Board

Technical Committee on Electronics Technology

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JIS C 5101-4-2:2010, First English edition published in 2011-03

Translated and published by: Japanese Standards Association  
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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Printed in Japan

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## Contents

	Page
Introduction .....	1
Blank detail specification .....	1
Identification of the detail specification .....	1
Identification of the capacitor .....	1
1 General data .....	2
1.0 Scope .....	2
1.1 Recommended method(s) of mounting .....	3
1.2 Dimensions .....	3
1.3 Ratings and characteristics .....	3
1.4 Normative references .....	4
1.5 Marking .....	5
1.6 Ordering information .....	5
1.7 Certified records of released lots .....	5
1.8 Additional information (not for inspection purposes) .....	5
1.9 Additional or increased severities or requirements to those specified in the generic and/or sectional specification .....	5
2 Inspection requirements .....	5
2.1 Procedures .....	5

## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Electronics and Information Technology Industries Association (JEITA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS C 5101-4-2:1998** has been replaced with this Standard.

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Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

**JIS C 5101** series consists of the following 45 parts under the general title “*Fixed capacitors for use in electronic equipment*”:

*JIS C 5101-1 Part 1: Generic specification*

*JIS C 5101-2 Part 2: Sectional specification: Fixed metallized polyethylene-terephthalate film dielectric d.c. capacitors*

*JIS C 5101-2-1 Part 2-1: Blank detail specification: Fixed metallized polyethylene-terephthalate film dielectric d.c. capacitors—Assessment levels E and EZ*

*JIS C 5101-3 Part 3: Sectional specification—Surface mount fixed tantalum electrolytic capacitors with manganese dioxide solid electrolyte*

*JIS C 5101-3-1 Part 3-1: Blank detail specification—Surface mount fixed tantalum electrolytic capacitors with manganese dioxide solid electrolyte—Assessment level EZ*

*JIS C 5101-4 Part 4: Sectional specification—Aluminium electrolytic capacitors with solid (MnO<sub>2</sub>) and non-solid electrolyte*

*JIS C 5101-4-1 Part 4-1: Blank detail specification—Fixed aluminium electrolytic capacitors with non-solid electrolyte—Assessment level EZ*

*JIS C 5101-4-2 Part 4-2: Blank detail specification—Fixed aluminium electrolytic capacitors with solid (MnO<sub>2</sub>) electrolyte—Assessment level EZ*

*JIS C 5101-8 Part 8: Sectional specification: Fixed capacitors of ceramic dielectric, Class 1*

*JIS C 5101-8-1 Part 8-1: Blank detail specification: Fixed capacitors of ceramic dielectric, Class 1 Assessment level EZ*

- JIS C 5101-9 *Part 9: Sectional specification: Fixed capacitors of ceramic dielectric, Class 2*
- JIS C 5101-9-1 *Part 9-1: Blank detail specification: Fixed capacitors of ceramic dielectric, Class 2 Assessment level EZ*
- JIS C 5101-11 *Part 11: Sectional specification: Fixed polyethylene-terephthalate film dielectric metal foil d.c. capacitors*
- JIS C 5101-11-1 *Part 11: Blank detail specification: Fixed polyethylene-terephthalate film dielectric metal foil d.c. capacitors Assessment level E*
- JIS C 5101-13 *Part 13: Sectional specification—Fixed polypropylene film dielectric metal foil d.c. capacitors*
- JIS C 5101-13-1 *Part 13-1: Blank detail specification—Fixed polypropylene film dielectric metal foil d.c. capacitors—Assessment levels E and EZ*
- JIS C 5101-14 *Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains*
- JIS C 5101-14-1 *Part 14-1: Blank detail specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains—Assessment level D*
- JIS C 5101-14-2 *Part 14-2: Blank detail specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains—Safety tests only*
- JIS C 5101-14-3 *Part 14-3: Blank detail specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains—Assessment level DZ*
- JIS C 5101-15 *Part 15: Sectional specification: Fixed tantalum capacitors with non-solid or solid electrolyte*
- JIS C 5101-15-1 *Part 15: Blank detail specification: Fixed tantalum capacitors with non-solid electrolyte and foil electrode Assessment level E*
- JIS C 5101-15-2 *Part 15: Blank detail specification: Fixed tantalum capacitors with non-solid electrolyte and porous anode Assessment level E*
- JIS C 5101-15-3 *Part 15: Blank detail specification: Fixed tantalum capacitors with solid electrolyte and porous anode Assessment level E*
- JIS C 5101-16 *Part 16: Sectional specification: Fixed metallized polypropylene film dielectric d.c. capacitors*
- JIS C 5101-16-1 *Part 16-1: Blank detail specification: Fixed metallized polypropylene film dielectric d.c. capacitors—Assessment levels E and EZ*
- JIS C 5101-17 *Part 17: Sectional specification: Fixed metallized polypropylene film dielectric a.c. and pulse capacitors*
- JIS C 5101-17-1 *Part 17-1: Blank detail specification: Fixed metallized polypropylene film dielectric a.c. and pulse capacitors—Assessment levels E and EZ*

- JIS C 5101-18 *Part 18: Sectional specification—Fixed aluminium electrolytic surface mount capacitors with solid (MnO<sub>2</sub>) and non-solid electrolyte*
- JIS C 5101-18-1 *Part 18-1: Blank detail specification—Fixed aluminium electrolytic surface mount capacitors with solid (MnO<sub>2</sub>) electrolyte—Assessment level EZ*
- JIS C 5101-18-2 *Part 18-2: Blank detail specification—Fixed aluminium electrolytic surface mount capacitors with non-solid electrolyte—Assessment level EZ*
- JIS C 5101-20 *Part 20: Sectional specification—Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors*
- JIS C 5101-20-1 *Part 20-1: Blank detail specification—Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors—Assessment level EZ*
- JIS C 5101-21 *Part 21: Sectional specification: Fixed surface mount multilayer capacitors of ceramic dielectric, Class 1*
- JIS C 5101-21-1 *Part 21-1: Blank detail specification: Fixed surface mount multilayer capacitors of ceramic dielectric, Class 1—Assessment level EZ*
- JIS C 5101-22 *Part 22: Sectional specification: Fixed surface mount multilayer capacitors of ceramic dielectric, Class 2*
- JIS C 5101-22-1 *Part 22-1: Blank detail specification: Fixed surface mount multilayer capacitors of ceramic dielectric, Class 2—Assessment level EZ*
- JIS C 5101-23 *Part 23: Sectional specification—Fixed surface mount metallized polyethylene naphthalate film dielectric DC capacitors*
- JIS C 5101-23-1 *Part 23-1: Blank detail specification—Fixed surface mount metallized polyethylene naphthalate film dielectric DC capacitors—Assessment level EZ*
- JIS C 5101-24 *Part 24: Sectional specification—Surface mount fixed tantalum electrolytic capacitors with conductive polymer solid electrolyte*
- JIS C 5101-24-1 *Part 24-1: Blank detail specification—Surface mount fixed tantalum electrolytic capacitors with conductive polymer solid electrolyte—Assessment level EZ*
- JIS C 5101-25 *Part 25: Sectional specification—Surface mount fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte*
- JIS C 5101-25-1 *Part 25-1: Blank detail specification—Surface mount fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte—Assessment level EZ*
- JIS C 5101-26 *Part 26: Sectional specification—Fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte (to be published)*
- JIS C 5101-26-1 *Part 26-1: Blank detail specification—Fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte—Assessment level EZ (to be published)*

**Fixed capacitors for use in  
electronic equipment—  
Part 4-2: Blank detail specification—  
Fixed aluminium electrolytic capacitors  
with solid (MnO<sub>2</sub>) electrolyte—  
Assessment level EZ**

**Introduction**

This Japanese Industrial Standard has been prepared based on the second edition of **IEC 60384-4-2** published in 2007 without modifying the technical contents.

The portions with dotted underlines are the matters not given in corresponding International Standard.

**Blank detail specification**

A blank detail specification is a supplementary document to the sectional specification, **JIS C 5101-4**, 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 Japanese Industrial Standards nor shall they be so described.

In the preparation of detail specifications, the contents of **1.4** of **JIS C 5101-4** 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, data 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** or National Standards 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).

NOTE : When the capacitor is not designed for use in printed board applications, this is 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.