

ICS 31.060.40
CCS L 11



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 6346.3-2015

Replacing GB/T 14121-1993

**Fixed capacitors for use in electronic equipment -- Part 3:
Sectional specification -- Surface mount fixed tantalum
electrolytic capacitors with manganese dioxide solid electrolyte
(English Translation)**

Issued on: July 3, 2015

Implemented on: March 1, 2016

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

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Appendix A (Normative Appendix) Test Scheme for Assessment Level EZ

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Foreword

"Fixed capacitors for electronic equipment" has been or plans to release the national standards are as follows.

- Part 1. General specification (GB/T 2693-2001/IEC 60384-1.:1999);

Part 2. Sectional specification Metallized polyethylene terephthalate film dielectric dc fixed capacitors (GB/T 7332-2011 /IEC 60384-2.:2005);

- Part 2-1. Blank detail specification - Metallized polyethylene terephthalate film dielectric dc fixed capacitors - Assessment level E and EZ (GB/T 7333-2012/IEC 60384-2-1.:2005);
IEC 60384-3.:2006);

- Part 3-1. Blank detail specification Surface mount MnO₂ Solid electrolyte Tantalum Fixed capacitors Evaluation level EZ (GB/T 6346.301-2015/IEC 60384-3-1.:2006);

Part 4. Sectional specification for solid and non - solid electrolytic aluminum capacitors (GB/T 5993-2003/IEC 60384-4.:1998);

- Part 4-1. Blank detail specification - Non - solid electrolyte aluminum capacitors - Assessment level E (GB/T 5994-2003 /IEC 60384-4-1.:2000);

Part 6. Sectional specification Metallized polycarbonate film dielectric dc fixed capacitors (GB/T 14004-1992/IEC 60384-6. 1987);

- Part 6-1. Blank detail specification Metallized polycarbonate film dielectric dc fixed capacitors - Assessment level E (GB/T 14005-1992/IEC 60384-6-1. 1987);

Part 7. Sectional specification for metal foil type polystyrene film dielectric dc fixed capacitors (GB/T 10185-2012);

- Part 7-1. Blank detail specification - Metallic foil type polystyrene film dielectric dc fixed capacitors - Assessment level E (GB/T 10186-2012);

Part 8. Sectional specification for type 1 ceramic dielectric capacitors (GB/T 5966-2011/IEC 60384-8.:2005);

- Part 8-1. Blank detail specification Class 1 Porcelain fixed capacitors Evaluation level EZ (GB/T 5967-2011 /IEC 60384-8-1.:2005);
- Part 9. Sectional specification for class 2 ceramic dielectric capacitors (GB/T 5968-2011/IEC 60384-9.:2005);
- Part 9-1. Blank detail specification Class 2 Porcelain fixed capacitors Evaluation level EZ (GB/T 5969-2012 /IEC 60384-9-1.:2005);
- Part 11. Sectional specification Metal foil Polyethylene terephthalate film dielectric DC fixed capacitors (GB/T 6346.11-2015/IEC 60384-11.:2008);
- Part 11-1. Blank detail specification Metal foil type Polyethylene terephthalate film dielectric DC fixed capacitors Assessment level EZ (GB/T 6346.1101-2015/IEC 60384-11-1.:2008);
- Part 13. Sectional specification for metal foil type polypropylene film dielectric DC fixed capacitors (GB/T 10188-2013 /IEC 60384-13.:2006);
- Part 13-1. Blank detail specification Metal foil type Polypropylene film dielectric DC fixed capacitors Evaluation level E and EZ (GB/T 10189-2013/IEC 60384-13-1.:2006);
- Part 14. Sectional specification for fixed capacitors for electromagnetic interference suppression (GB/T 6346.14-2015/IEC 60384-14. 2005);
- Part 14-1. Blank detail specification Suppression of fixed capacitors for power supply electromagnetic interference rating D (GB/T 6346.1401-2015/IEC 60384-14-1.:2005);
- Part 15. Sectional specification for non-solid or solid electrolyte tantalum capacitors (GB/T 7213-2003/IEC 60384-15. 1982, Amendment No. 1. 1987, Amendment No. 2.:1992);
- Part 15-1. Blank detail specification - Non - solid electrolyte foil electrode tantalum capacitors - Assessment level E (GB/T 12794 -1991/IEC 60384-15-1. 1984);
- Part 15-2. Blank detail specification Non-solid electrolyte Porous anode tantalum capacitors Evaluation level E (GB/T 12795-1991/IEC 60384-15-2. 1984);
- Part 15-3. Blank detail specification for solid electrolyte and porous anode tantalum capacitors - Assessment level E (GB/T 7214-2003/IEC 60384-15-3.:1992);
- Part 16. Sectional specification Metallized polypropylene film dielectric dc fixed capacitors (GB/T 10190-2012/IEC 60384-16.:2005);
- Part 16-1. Blank detail specification Metallized polypropylene film dielectric dc fixed capacitors - Assessment level E and EZ (GB/T 10191-2011/IEC 60384-16-1.:2005);
- Part 17. Sectional specification Metallized polypropylene film dielectric AC and pulse fixed capacitors (GB/T 14579-2013 /IEC 60384-17.:2005);

- Part 17-1. Blank detail specification Metallized Polypropylene Membrane Media AC and Pulsed Fixed Capacitors Evaluation Level EZ (GB/T 14580-2013/IEC 60384-17-1.:2005);
- Part 18. Sectional specification for solid (MnO₂) and non-solid electrolyte chip aluminum fixed capacitors (GB/T 17206-1998 /IEC 60384-18.:1993, Amendment No. 1.:1998);
- Part 18-1. Blank Detail Specification Surface Mount Solid (MnO₂) Electrolyte Aluminum Fixed Capacitor Rating Level EZ (GB/T 17207-2012/IEC 60384-18-1.:2007);
- Part 18-2. Blank detail specification Non-solid electrolyte chip aluminum fixed capacitors Evaluation level E (GB/T 17208-1998/IEC 60384-18-2.:1993);
- Part 19. Sectional specification Surface mount metallized polyethylene terephthalate film dielectric dc fixed capacitors (GB/T 15448-2013/IEC 60384-19.:2005);
- Part 19-1. Blank detail specification Surface mount metallized polyethylene terephthalate film dielectric dc fixed capacitors Assessment level EZ (GB/T 16467-2013/IEC 60384-19-1.:2005);
- Part 21. Sectional specification - Type 1 multilayer ceramic dielectric capacitors for surface mounting (GB/T 21041-2007/IEC 60384-21.:2004);
- Part 21-1. Blank detail specification - Type 1 multi - layer ceramic dielectric mountings for surface mounting - Assessment level EZ (GB/T 21038-2007/IEC 60384-21-1.:2004);
- Part 2. Sectional specification - Type 2 multilayer ceramic dielectric capacitors for surface mounting (GB/T 21042-2007/IEC 60384-22.:2004);
- Part 22-1. Blank detail specification - Type 2 multilayer ceramic dielectric mountings for surface mounting - Assessment level EZ (GB/T 21040-2007/IEC 60384-22-1.:2004).

This section is part 3 of the "Fixed Capacitor for Electronic Equipment".

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

Part 1. GB/T 14121-1993 "Fixed capacitors for use in electronic equipment - Part 3. Sectional specification - Chip tantalum fixed capacitors (For certification) ".

This part compared with GB/T 14121-1993, the main technical changes are as follows.

- standard name to "surface mount MnO₂ solid electrolyte tantalum fixed capacitor";
- Added the terms and requirements of "Category 1" (see 1.5.3), "Category 2" (see 1.5.4), "Category 3" (see 1.5.5)
- surge voltage from "1.15 times" adjusted to "1.3 times" (see 2.2.5);
- increase the capacitance and voltage mark code (see 1.6.2);
- increased installation conditions and final measurement requirements (see 4.3);