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

GB/T 6346.1401-2025

Replacing GB/T 6346.1401-2015

**Fixed capacitors for use in electronic equipment - Part 14-1: Blank detail
specification - Fixed capacitors for electromagnetic interference suppression and
connection to the supply mains - Assessment level DZ**

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 14-1 of "Fixed Capacitors for Electronic Equipment". The following documents have been published regarding "Fixed Capacitors for Electronic Equipment".

part.

---Part 1: General Specification (GB/T 6346.1-2024);

---Part 2: Specifications for metallized polyethylene terephthalate film dielectric DC fixed capacitors (GB/T 7332-2011);

---Part 2-1. Blank Detailed Specification for Evaluation of Metallized Polyethylene Terephthalate Film Dielectric DC Fixed Capacitors Standard E and Standard EZ (GB/T 7333-2012);

---Part 3: Specifications for surface-mounted MnO₂ solid electrolyte tantalum fixed capacitors (GB/T 6346.3-2015);

---Part 3-1. Blank Detailed Specification for Surface Mount MnO₂ Solid Electrolyte Tantalum Fixed Capacitors Rating Level EZ (GB/T 6346.301-2015);

---Part 4: Standards for Solid and Non-Solid Electrolyte Aluminum Capacitors (GB/T 5993-2003);

---Part 4-1. Blank Detailed Specification for Evaluation Level E of Non-Solid Electrolyte

Aluminum Capacitors (GB/T 5994-2003);

---Part 5: Selection of Test Methods for Fixed DC Mica Dielectric Capacitors with Rated Voltage Not Exceeding 3000 V and General requirements (GB/T 6261-1998);

---Part 5: Blank Detailed Specifications for Rated Voltage Not Exceeding 3000V DC Mica Dielectric Fixed Capacitors - Evaluation Level E(GB/T 6262-1998);

---Part 6: Specifications for Metallized Polycarbonate Film Dielectric DC Fixed Capacitors (for certification purposes) (GB/T 14004-

1992);

---Part 6: Blank Detailed Specification for Metallized Polycarbonate Film Dielectric DC Fixed Capacitors Rating Level E (Available for Certification) (Use (GB/T 14005-1992);)

---Part 7: Specifications for Metal Foil Polystyrene Film Dielectric DC Fixed Capacitors (GB/T 10185-2012);

---Part 7-1.Blank Detailed Specification for Rating Level E of Metal Foil Polystyrene Film Dielectric DC Fixed Capacitors (GB/T 10186-2012);

---Part 8: Classification Standards for Ceramic Fixed Capacitors (GB/T 5966-2011);

---Part 8-1.Blank Detailed Specification for Class 1 Ceramic Fixed Capacitors, Assessment Level EZ (GB/T 5967-2011);

---Part 9: Classification of Ceramic Fixed Capacitors (GB/T 5968-2011)

---Part 9-1.Blank Detailed Specification for Class 2 Ceramic Fixed Capacitors, Assessment Level EZ (GB/T 5969-2012);

---Part 11: Specifications for Metal Foil-Type Polyethylene Terephthalate Film Dielectric DC Fixed Capacitors (GB/T 6346.11-2015);

---Part 11-1.Blank Detailed Specifications for Metal Foil Polyethylene Terephthalate Film Dielectric DC Fixed Capacitors Instrument evaluation level EZ (GB/T 6346.1101-2015);

---Part 13: Specifications for Metal Foil Polypropylene Film Dielectric DC Fixed Capacitors (GB/T 10188-2013);

---Part 13-1.Blank Detailed Specification for Rating Levels E and EZ of Foil-Modulated Polypropylene Film Dielectric DC Fixed Capacitors (GB/T 10189-2013);

---Part 14: Standard for Fixed Capacitors for Suppressing Electromagnetic Interference from Power Supplies (GB/T 6346.14-2023);

---Part 14-1.Blank Detailed Specification for the Evaluation Level of Fixed Capacitors for Suppressing Electromagnetic Interference from Power Supplies DZ (GB/T 6346.1401-2025);

- Part 15: Specifications for non-solid or solid electrolyte tantalum capacitors (GB/T 7213-2003);
- Part 15: Blank Detailed Specification for Non-Solid Electrolyte Foil Electrode Tantalum Capacitors, Rating Level E (for Certification) (GB/T 12794-1991);
- Part 15: Blank Detailed Specification for Non-Solid Electrolyte Porous Anode Tantalum Capacitors, Rating Level E (for Certification) (GB/T 12795-1991);
- Part 15-3. Blank Detailed Specification for Evaluation Level E of Solid Electrolytes and Porous Anode Tantalum Capacitors (GB/T 7214-2003);
- Part 16: Specifications for metallized polypropylene film dielectric DC fixed capacitors (GB/T 10190-2012);
- Part 16-1. Blank Detailed Specification for Rating Levels E and EZ of Metallized Polypropylene Film Dielectric DC Fixed Capacitors (GB/T 10191-2011);
- Part 17: Specifications for metallized polypropylene film dielectric AC and pulse fixed capacitors (GB/T 14579-2013);
- Part 17-1. Blank Detailed Specification for Metallized Polypropylene Film Dielectric AC and Pulse Fixed Capacitor Evaluation Level E and EZ (GB/T 14580-2013);
- Part 18: Standardized Solid (MnO₂) and Non-Solid Electrolyte Chip Aluminum Fixed Capacitors (GB/T 17206-1998);
- Part 18: Blank Detailed Specification for Evaluation Level E of Non-Solid Electrolyte Chip Aluminum Fixed Capacitors (GB/T 17208-1998);
- Part 18-1. Blank Detailed Specification for Surface Mount Solid (MnO₂) Electrolyte Aluminum Fixed Capacitors Rating Level EZ (GB/T 17207-2012);
- Part 19: Specifications for surface-mount metallized polyethylene terephthalate film dielectric DC fixed capacitors (GB/T 15448-2013);
- Part 19-1. Blank Detailed Specifications for Surface Mount Metallized Polyethylene Terephthalate Film Dielectric DC Fixed Capacitors Assessment level EZ (GB/T 16467-2013);
- Part 21: Specifications for Class 1 multilayer ceramic fixed capacitors for surface mounting (GB/T 21041-2007);
- Part 21-1. Blank Detailed Specification for Class 1 Multilayer Ceramic Fixed Capacitors for

Surface Mount (EZ) (GB/T 21038-2007);

---Part 22: Specifications for Class 2 Multilayer Ceramic Fixed Capacitors for Surface Mount (GB/T 21042-2007);

---Part 22-1. Blank Detailed Specification for Surface Mount Class 2 Multilayer Ceramic Fixed Capacitors, Evaluation Level EZ (GB/T 21040-2007);

---Part 23: Specifications for Surface Mount Metallized Poly(ethylene Naphthalate) Film Dielectric DC Fixed Capacitors (6346.23-)

2025);

---Part 23-1. Blank Detailed Specifications Surface Mount Metallized Poly(ethylene Naphthalate) Film Dielectric DC Fixed Capacitor Instrument rating level EZ (6346.2301-2025);

---Part 24: Specifications for surface-mount conductive polymer solid electrolyte tantalum fixed capacitors (GB/T 6346.24-2021);

---Part 25: Specifications for surface-mounted conductive polymer solid electrolyte aluminum fixed capacitors (GB/T 6346.25-2018);

---Part 25-1. Blank Detailed Specification for Surface Mount Conductive Polymer Solid Electrolyte Aluminum Fixed Capacitors Rating Level EZ (GB/T 6346.2501-2018);

---Part 26: Standardized Conductive Polymer Solid Electrolyte Aluminum Fixed Capacitors (GB/T 6346.26-2018);

---Part 26-1. Blank Detailed Specification for the Evaluation Level (EZ) of Conductive Polymer Solid Electrolyte Aluminum Fixed Capacitors (GB/T 6346.2601-2018).

This document replaces GB/T 6346.1401-2015 "Fixed capacitors for electronic equipment - Part 14-1. Blank detailed specifications for suppression".

"Electromagnetic Interference Assessment Level D for Fixed Capacitors for Power Supply". Compared with GB/T 6346.1401-2015, except for structural adjustments and editorial changes...

Aside from the changes, the main technical changes are as follows.

a) Change "Assessment Level D" to "Assessment Level DZ", and modify the inspection level IL value and acceptance number c in Tables 4 and 5.

(See Tables 4 and 5, 2015 editions of Tables 4 and 5);

b) Solderability test method 3, the solder ball method, has been deleted (see Table 4.5 and Table 5.5 in the 2015 edition);

c) Change "dry heat" to "high temperature" (see 4.11.2 in Table 5, 2015 version of Table 5,