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

GB/T 37034.2-2025

Replacing GB/T 37034.2-2018

**Process management for avionics - Counterfeit prevention -
Part 2: Managing electronic components from non-franchised
sources**

航空电子过程管理 防伪 第2部分：来源于非授权经销商电子元器件的管理
(English Translation)

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References

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 2 of GB/T 37034 "Anti-counterfeiting in Avionics Process Management". GB/T 37034 has been published as follows.

part.

---Part 2: Management of electronic components from unauthorized distributors.

This document replaces GB/T 37034.2-2018 "Anti-counterfeiting in Avionics Process Management - Part 2: Electronic Products from Unauthorized Distributors".

Compared with GB/T 37034.2-2018, the main technical changes in "Management of Components" are as follows, apart from structural adjustments and editorial modifications.

---The risk assessment process has been modified, referencing SAEAS 6081 (see 4.5.5, 2018 version 4.5.5, Appendix B);

---The testing methodology has been modified, referencing the published and developing testing methodologies of SAEAS 6171 (see 4.5.8.3, 2018 version).

4.5.8.3, Appendix D);

---The relevant references to IEC 62668-1 in the terms and definitions have been changed (see 3.1, 3.2, and 3.1 and 3.2 in the 2018 edition).

This document is equivalent to IEC 62668-2:2019 "Aviation electronics process management - Anti-counterfeiting - Part 2: Counterfeiting from unauthorized distributors".

Management of electronic components.

The following minimal editorial changes have been made to this document.

---Removed items that were inconsistent with the domestic situation [mainly those involving the U.S. Defense Federal Procurement Regulations Supplement (DFARS)].

The version file notes and other content.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Avionics Process Management (SAC/TC427).

Introduction

Avionics companies have a responsibility to ensure that all flight equipment they produce has a projected product lifespan to guarantee public safety.

Mean time to failure (MTTF). When estimating product lifespan just before it enters flight use, it is assumed that all elements...

All components are brand new or considered unused. In the aerospace, defense, and high-reliability fields (ADHP), the "lifespan" has been consumed and malfunctions may occur.

GB/T 37034, the "Anti-counterfeiting in Aviation Electronics Process Management" series of standards, is designed to regulate the management of electronic components in the ADHP industry and ensure...

The technical standardization documents proposed for the use of related products will consist of two parts.

---Part 1: Avoidance of Counterfeit, Deceptive, and Recycled Electronic Components. The aim is to regulate the use of counterfeit, deceptive, and recycled electronic components within the ADHP industry.

Requirements for counterfeiting, recycling, and deceptive components, as well as for protecting the intellectual property rights of related products and services.

---Part 2: Management of Electronic Components from Unauthorized Distributors. The aim is to regulate the use of purchased electronic components within the ADHP industry.

Requirements regarding counterfeit, recycled, and deceptive components outside of authorized dealer networks.

This document combines the development and engineering applications of management technologies for avionics components both domestically and internationally, and references the compilation and revision of relevant domestic and international standards.

Regarding the order situation, referring to the IEC 62668 series standards, traceability analysis was conducted on electronic components originating from unauthorized distributors to formulate appropriate [measures].

Clauses related to risk analysis and loss mitigation procedures for components purchased from unauthorized distributors, tailored to my country's national conditions. Also includes provisions addressing counterfeit and substandard products.

Based on the characteristics of electronic components and combined with current testing methods such as electronic component screening and destructive physical analysis, a method suitable for non-authorized electronic components is developed.

This involves testing methods for authorized distributors' electronic components, thereby avoiding or reducing losses when using electronic components from unauthorized distributors.

Anti-counterfeiting in avionics process management Part 2: Sourced from unauthorized distributors Management of electronic components

1 Scope

This document outlines guidelines to avoid the use of potentially counterfeit products purchased outside of the authorized reseller network in the aerospace, defense, and high-reliability fields.

Requirements regarding counterfeit, recycled, and deceptive components. This document applies only to reducing losses when suitable or practically available alternatives are unavailable.

Note: This document is typically used in conjunction with IEC 62239-1 and IEC 62668-1.

This document is applicable to high-reliability fields such as aerospace and defense, and users can also use it in other high-performance and high-reliability fields.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.