

IPC-6012DS

2015 - September

**Space and Military Avionics
Applications Addendum to
IPC-6012D *Qualification and
Performance Specification
for Rigid Printed Boards***

A standard developed by IPC

Association Connecting Electronics Industries



The Principles of Standardization

In May 1995 the IPC's Technical Activities Executive Committee (TAEC) adopted Principles of Standardization as a guiding principle of IPC's standardization efforts.

Standards Should:

- Show relationship to Design for Manufacturability (DFM) and Design for the Environment (DFE)
- Minimize time to market
- Contain simple (simplified) language
- Just include spec information
- Focus on end product performance
- Include a feedback system on use and problems for future improvement

Standards Should Not:

- Inhibit innovation
- Increase time-to-market
- Keep people out
- Increase cycle time
- Tell you how to make something
- Contain anything that cannot be defended with data

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Thank you for your continued support.



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Avionics Applications
Addendum to IPC-6012D
*Qualification and
Performance Specification
for Rigid Printed Boards***

Developed by the IPC-6012 Aerospace Addendum Task Group (D-33AS)
of the Rigid Printed Board Committee (D-30) of IPC

Users of this publication are encouraged to participate in the
development of future revisions.

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Acknowledgment

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Space and Military Avionics Applications Addendum to IPC-6012D *Qualification and Performance* Specification for Rigid Printed Boards

0.1 Scope This addendum provides requirements to be used in addition to, and in some cases, in place of, those published in IPC-6012D to ensure the reliability of printed boards that must survive the vibration, ground testing, and thermal cycling environments of space and military avionics.

0.1.1 Purpose When required by procurement documentation/drawings, this Addendum replaces specifically identified requirements of IPC-6012D.

0.1.2 Precedence The procurement documentation takes precedence over this Addendum and referenced standards. In the event of a conflict between this Addendum and the applicable documents cited herein, this Addendum takes precedence. Where referenced criteria of this addendum differ from the published IPC-6012D, this Addendum takes precedence.

0.1.3 Existing or Previously Approved Designs This Addendum **shall not** constitute the sole cause for the redesign of previously approved designs. When drawings for existing or previously approved designs undergo revision, they should be reviewed and changes made that allow for compliance with the requirements of this Addendum.

0.1.4 Use of this Addendum This addendum **shall not** be used as a stand-alone document.

Where criteria are not supplemented, the Class 3 requirements of IPC-6012D **shall** apply. Where IPC-6012D criteria are supplemented or new criteria are added by this Addendum, the clause is listed in IPC-6012DS, Table 1, Space Applications Requirements, and the entire IPC-6012D clause and its associated Table 4-3 entry is replaced by this Addendum except as specifically noted.

The clauses modified by this Addendum do not include subordinate clauses unless specifically stated (i.e., changes made to 3.5 do not affect 3.5.1 unless 3.5.1 is also addressed in this Addendum.)

0.1.5 Superseded Specifications This addendum supersedes and replaces IPC-6012C Appendix A and its collection of supplemental requirements previously referred to as Class 3/A.