

## Ipc 1601 Printed Circuit Board Handling And Storage Guidelines

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### Ipc 1601 Printed Circuit Board

IPC-1601A Printed Board Handling and Storage Guidelines Developed by the Printed Board Storage and Handling Subcommittee (D-35) of the Rigid Printed Board Committee (D-30) of IPC Users of this publication are encouraged to participate in the development of future revisions. Contact: IPC Supersedes: IPC-1601 - August 2010 ®

### IPC-1601A: Printed Board Handling and Storage Guidelines ...

IPC 1601a Printed Board Handling and Storage Guidelines Before the implementation of the current standards in use today, the PCB industry as a whole relied on military standards. However, storage and handling guidelines used by the military did not correctly define methods for packaging PCBs to preserve their quality and reliability during shipment or storage.

### How to Use the IPC 1601a Printed Board Handling and ...

IPC-1601 Printed Board Handling and Storage Guidelines Developed by the Board Storage and Handling Subcommittee (D-35) within the Rigid Printed Board Committee (D-30) of IPC Users of this publication are encouraged to participate in the development of future revisions. Contact: IPC 3000 Lakeside Drive, Suite 309S Bannockburn, Illinois 60015-1249

### Printed Board Handling and Storage Guidelines - IPC

label: printed board, circuit board material, PCB feature. IPC-1601 provides users with guidance on how to protect printed boards from contamination, physical damage, solderability degradation, electrostatic discharge and moisture uptake. The document covers all phases of production, from the manufacture of the bare printed board, through delivery, receiving, stocking, and soldering.

### IPC-1601, Standard on Handling, Packaging and Stor ...

The industry's sole guideline on the handling, packaging and storage of printed boards. The guidelines in this document are intended to protect printed boards from contamination, physical damage, solderability degradation and moisture uptake. Consideration is given to packaging material types and methods, production environment, handling and transport of product, and establishing baking ...

### 1601A: Printed Board Handling and Storage Guidelines | IPC ...

The industry's sole guideline on the handling, packaging and storage of printed boards. The guidelines in this document are intended to protect printed boards from contamination, physical damage, solderability degradation and moisture uptake. Consideration is given to packaging material types and methods, production environment, handling and transport of product, and establishing baking ...

### IPC-1601A: Printed Board Handling and Storage Guidelines ...

Approach: Our team determined baking the printed circuit boards at receiving, prior to assembly for

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a minimum of 4 hours at 125°C and a maximum of 16 hours would meet IPC-1601 standards (Printed Board Handling and Storage Guidelines). Moisture barrier bags in a range of sizes were ordered for storage of the circuit boards after completing the PCB baking process.

## **Printed Circuit Board Bake-out Process and Quality Control ...**

We should say for those of who are not familiar, IPC 1601 is the final, formal definition for dealing with moisture absorption in printed circuit boards. It's very similar to IPC/JEDEC J-STD-033 Moisture Sensitivity and Handling in Components. This is the same kind of specifications for circuit boards. Phil Moisture in circuit boards, either the way they've been stored, the way they've been shipped, the way they're handled at incoming and receiving, and in the storage room.

## **Circuit Board Moisture Sensitivity and Baking**

IPC-4552 Amendment 2 Specification for Electroless Nickel/Immersion Gold (ENIG) Plating for Printed Circuit Boards Amendment 2 to IPC-4552 is a new section in the original release of the IPC-4552. The Amendment 2 provides the "rules" by which any rework and/or repair of a printed board's ENIG surface finish is allowed.

## **IPC Free Documents | IPC**

IPC standards and committees for the printed circuit board design, manufacture, assembly and test. IPC is an ANSI-accredited standards developer.

## **Standards | IPC**

IPC-1601A is the industry's sole standard on the handling, packaging and storage of printed boards. The IPC-1602 standard provides requirements intended to protect printed boards from contamination, physical damage, solderability degradation and moisture uptake.

## **IPC-1602: Standard for Printed Board Handling and Storage ...**

The IPC-1601 provides suggestions for proper handling, packaging materials and methods, environmental conditions, and storage for printed boards. These guidelines are intended to protect printed boards from contamination, physical damage, solderability degradation, electrostatic discharge (ESD) (when necessary), and moisture uptake.

## **Moisture Sensitivity Level for Bare Boards**

IPC-6012: Quality and performance specification for rigid printed circuit board. IPC-6012 is the specification that establishes the performance and qualification requirements for the fabrication of rigid boards. These specifications are applicable to the technologies listed below:

## **IPC-6012 or IPC-A-600: Which Standard Should You Use ...**

The IPC-1601, Printed Board Handling and Storage Guidelines, has 34 references on the subject of baking PCBs. The IPC answers the questions of Why to bake, How to bake, and What precautions should be taken (e.g., the effects on terminal finishes). Handling, storage and packaging tips abound.

## **Proper method to bake PCB's**

Taught by an IPC-certified industry expert with 25+ years of experience in the field, the eight-week program utilizes interactive webinars, on-demand recorded training, job-specific exercises, and team projects to facilitate mastery of the key concepts required Circuit Board Designers in the electronics industry.

## **IPC Introduction to Printed Circuit Board (PCB) Design ...**

IPC-2221, 2222, 2223 & 2226 + 7351 Repair IPC-7711/21 SMT Reliability IPC-9701-IPC-9704 IPC-9706-IPC-9709 Requirements for Soldered Electronic Assemblies IPC J-STD-001, IPC-HDBK-001, IPC-AJ-820 Acceptability of Electronic Assemblies IPC-A-610 Requirements and Acceptance for Cable and Wire Harness Assemblies IPC/WHMA-A-620, IPC-D-620, IPC ...

## **IPC Standards: What Every Manufacturer Should Know**

Contact Us. SMTA Headquarters 6600 City West Parkway, Suite 300 Eden Prairie, MN 55344 USA. Phone +1 952.920.7682 Fax +1 952.926.1819

## **Chapters - Surface Mount Technology Association**

Printed circuit boards are hygroscopic. They shall absorb moisture to the point of equilibrium.

## Where To Download Ipc 1601 Printed Circuit Board Handling And Storage Guidelines

Whereas boards readily absorb moisture they require help to force the moisture back out. IPC-1601 "Printed Board Handling and Storage Guidelines" specification section 3.4 and Table 3-1 provides guidance on the dry baking of printed circuit boards.

### **8565B Somerset Drive, Largo, FL 33773 Shelf-Life and Dry ...**

IPC-1602: Standard for Printed Board Handling and Storage-+ View Details. Member: \$79.00.

Nonmember: \$158.00. IPC-1602-English. IPC-1602: Standard for Printed Board Handling and Storage-+ View Details. Member: \$71.00. Nonmember: \$141.00. IPC-1755A-English. IPC-1755A: Responsible Sourcing of Minerals Data Exchange Standard-+

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