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Ipc 1601 Printed Circuit Board Handling And Storage Guidelines

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Guidelines

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

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participate in the

development of

future revisions.

Contact: IPC

Supersedes: IPC-1601 -

August 2010 ®

IPC-1601A: Printed Board Handling and Storage Guidelines

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Board Handling and

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Before the

implementation of the

current standards in

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Board Handling

And Storage

Guidelines

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 ...

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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

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60015-1249

Board Handling

**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.

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Printed Circuit Board Handling And Storage Guidelines

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

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Printed Circuit Board Handling And Storage Guidelines

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

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product, and
establishing baking...

And Storage

Guidelines
**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,

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solderability

Board Handling

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

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Printed Circuit

Board Handling

And Storage
Guidelines

determined baking the printed circuit boards at receiving, prior to assembly for 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.

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

Guidelines

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

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Printed Circuit Board Handling
And Storage Guidelines

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**

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Printed Circuit Board Handling And Storage Guidelines

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.

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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

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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

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Printed Circuit
Board Handling

handling, packaging
materials and
methods,
environmental

And Storage
Guidelines
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.

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**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

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applicable to the
technologies listed

below:

And Storage

Guidelines

**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

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Printed Circuit Board Handling And Storage Guidelines
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

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Printed Circuit Board Handling And Storage Guidelines

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

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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**

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Should Know

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+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. Whereas

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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**

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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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