

IPC-2221B Generic Standard on Printed Board Design
2nd Working Draft
June 2007

1 SCOPE

This standard establishes the generic requirements for the design of organic printed boards and other forms of component mounting or interconnecting structures, ~~including PC form factors~~. The organic materials may be homogeneous, reinforced, or used in combination with inorganic materials; the interconnections may be single, double, or multilayered.

1.1 Purpose The requirements contained herein are intended to establish design principles and recommendations that **shall** be used in conjunction with the detailed requirements of a specific interconnecting structure sectional standard (see 1.2) to produce detailed designs intended to mount and attach passive and active components. This standard is not intended for use as a performance specification for finished boards nor as an acceptance document for electronic assemblies. For acceptability requirements of electronic assemblies, see IPC/EIA-J-STD-001 and IPC-A-610.

The components may be through-hole, surface mount, fine pitch, ultra-fine pitch, array mounting or unpackaged bare die. The materials may be any combination able to perform the physical, thermal, environmental, and electronic function.

1.2 Documentation Hierarchy This standard identifies the generic physical design principles, and is supplemented by various sectional documents that provide details and sharper focus on specific aspects of printed board technology. Examples are:

IPC-2222 Rigid organic printed board structure design
IPC-2223 Flexible printed board structure design
IPC-2225 Organic, MCM-L, printed board structure design
IPC-2226 High Density Interconnect (HDI) structure design

The list is a partial summary and is not inherently a part of this generic standard. The documents are a part of the PCB Design Document Set which is identified as IPC-2220. The number IPC-2220 is for ordering purposes only and will include all documents which are a part of the set, whether released or in-process proposal format at the time the order is placed.

1.3 Presentation All dimensions and tolerances in this standard are expressed in hard SI (metric) units and parenthetical soft imperial (inch) units. Users of this and the corresponding performance and qualification specifications are expected to use metric dimensions.

1.4 Interpretation "Shall," the imperative form of the verb, is used throughout this standard whenever a requirement is intended to express a provision that is mandatory. Deviation from a "shall" requirement may be considered if sufficient data is supplied to justify the exception.

The words "should" and "may" are used whenever it is necessary to express nonmandatory provisions. "Will" is used to express a declaration of purpose.

To assist the reader, the word "**shall**" is presented in bold characters.

1.5 Definition of Terms The definition of all terms used herein **shall** be as specified in IPC-T-50.

1.6 Classification of Products This standard recognizes that rigid printed boards and printed board assemblies are subject to classifications by intended end item use. Classification of producibility is related to complexity of the design and the precision required to produce the particular printed board or printed board assembly.

Any producibility level or producibility design characteristic may be applied to any end-product equipment category. Therefore, a high-reliability product designated as Class "3" (see 1.6.2), could require level "A"

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