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## DIY Printed Circuit Board (PCB)

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From circuit board design to finished product: the hobbyist's guide to hardware manufacturing

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### Printed Circuit Boards (PCBs)

Printed circuit boards (PCBs) are at the core of practically all modern electronic devices. They feature electrical components connected by engraved conductive pathways, which enable them to serve as a more compact and easy-to-install alternative to traditional multi-wire circuits.

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**What is a PCB ...**

Description. A Guide to Printed Circuit Board Design discusses the basic design principles of printed circuit board (PCB). The book consists of nine chapters; each chapter provides both text discussion and

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illustration relevant to  
the topic being  
discussed.

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A printed circuit board  
(PCB) is a primary part  
on the BOM. The PCB  
is the “canvas” or

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substrate that provides electrical connection and mechanical support of all the other components on the printed circuit assembly. The printed circuit board is a custom fabricated part critical to the performance of the circuit.

**A Quick Guide To  
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**by Charles ...**

Flexible printed circuit boards are composed of similar materials to other PCBs. All circuits require a metal conductor to carry electricity, and copper is the most common material used in PCBs. Copper comes in a variety of thicknesses for different



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preferences. Other  
conductor options  
include aluminum,  
silver ink, carbon, and  
constantan.

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guide was printed  
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The chips, or integrated circuits (ICs), are attached to a larger panel called a printed circuit board (PrCB).

The PrCB and many other components (parts including ICs, electrical connections, and transistors) together make the electronic

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product. Many of the processes to make a chip are used to make a PrCB, so many of the dangers, such as photomasking, etching, and adding more layers are similar but on a larger scale.

**Making the printed circuit board -  
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"The Printed Circuit  
Designer's Guide to..."

micro e-book series is an incredibly valuable resource for designers and manufacturers of printed circuit boards. These highly focused 50-60 page e-books will educate the readers on specific topics focused design topics associated with the design and manufacturability of

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Guides in sections 7  
through 9 detail the  
proper step-by-step  
techniques, tools and  
materials, and cautions  
needed to reliably  
rework assembled  
circuit boards covering  
soldering, desoldering  
and BGA rework

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procedures. Each  
procedure includes a  
"Conformance Level"  
indicated as high,  
medium or low.

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There are many facets  
and details that go into



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Designing a printed  
circuit board. Part of the  
designer's function is to  
combine the various  
engineering disciplines  
into a realizable and  
manufacturable product.  
The Hitchhiker's Guide  
to PCB Design provides  
a great overview for  
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**The Hitchhikers Guide**

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Comprehensive Guide to Printed Circuit Board Assembly. There have been many claims about the manufacture and manufacture of printed circuit boards, but little to do with printed circuit board assembly as a topic on its own. In this article, we will

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discuss ten things that  
you need to know about  
the printed circuit board  
assembly ...

**The Most  
Comprehensive Guide  
to Printed Circuit  
Board Assembly**

A printed circuit board  
(PCB) mechanically  
supports and electrically  
connects electrical or  
electronic components

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using conductive tracks, pads and other features etched from one or more sheet layers of copper laminated onto and/or between sheet layers of a non-conductive substrate. Components are generally soldered onto the PCB to both electrically connect and mechanically fasten them to it.

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Printed circuit board design rules and PCB layout guidelines become more complex as the number of layers in your stackup increases. Your routing

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strategy will require alternating horizontal and vertical traces in alternating layers, unless you separate each signal layer with a reference plane.

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Altium's new e-book,  
The Printed Circuit

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has everything you need  
to know to get your  
board 'right the first  
time.

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How to Solder a Circuit  
Board. Next, let's see



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how to solder through-hole components to a circuit board. Start by placing the component into its holes. Place it so that its legs come out on the same side as the solder pads. On the solder side of the board, bend the legs of the component a bit.

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