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### **Integrated circuit - Wikipedia**

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

### **Printed circuit board - Wikipedia**

Conclusion www.ti.com Plots in Figure 3 show the relationship of  $R_{\theta,JA}$  versus the copper mounting pad area and its surface placement on the board. It is apparent that increasing copper mounting pad area considerably lowers  $R_{\theta,JA}$  from approximately  $110^{\circ}\text{C/W}$  to  $40^{\circ}\text{C/W}$  in the range from 0.0123 to 1 square inches.

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