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The Process of Fabrication of Pcb by Julia Roger

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PCB or Printed Circuit Board has become a most commonly used template in the creation ofmaking electronic devices today. When one looks at the marvels one has created through this board one is moved to wonder at the techniques and processes that has gone into creating it.

In the early stages following the period of its discovery, the process of creation of the outline of the board was both cumbersome as well as time consuming. Nowadays, this is handled by automated equipment which makes the process easier and cost effective. The process consists of the basic steps of overlaying insulate copper foil laminated with epoxy resin and covered with a solder mask. This is followed by bonding the copper the layer of substrate. This step eliminates any strands of unwanted copper. This basic process is supplemented with various technological processes created for either large scale commercial production or small scale individual designs. Among these, Silk Screen Printing is the main desire process using the additional step of using inks to protect the copper foil and then following it up with the process of removal of unwanted traces of copper through etching and adding more copper to get the desired amount of traces. Other methods include Photoengraving and PCB Milling. There is also the process of Chemical Etching where the copper is electroplated. These methods are focused on the removal of unwanted copper traces so that right amount of current can pass through this board. These productions are then tested to the bare board test where the correctness of the circuit connection is determined. The board is connected to a computer which determines the rightness of the board.

printed circuit board fabricationPCB Fabrication is the source process that does not end with the creation of the mother board. It goes on to play the central role in the creation of devices of far more complexity and magnitude effecting the change in the trends of the world.

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