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How to Identify Flex Circuits Pitch by James

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In order to meet the requirement of flexibility demanded by the circuit board, the production of Flex circuits is performed. In this process the three kinds of conductors are manufactured. These conductors are made in 3D circuit with the flexible dielectric. The major use of these flexible circuits is very prominent in the medical sectors, where they are used as medical implants.

There is a particular process of shaping the ground of the circuit, which is done with the use of copper and lead stations. Here is the entire process explaining this:

In this procedure, on the first note, you need to place a rule aside of the edge of the circuit having primary and secondary datum to it. This is required for ensuring correct measurement.

Then there is the second step in which you need to measure the thickness of the copper foil, by considering the measurement as 0.0007 inch of copper equals 0.5 ounces

Thermoplastics include the equipment which will soften after the heat input and it comprises polymers, polyester, fluorinated and hydrocarbons.

Whereas the Thermosetting Plastics include polyimide, polyacrylate, etc.

The copper material reflects the sign of good conductor and it is available in the foil form whereas completely flex PCB is built on polyimide or polyester film. The usage of aramid and fluorocarbon films is also done for various superior purposes.

Choosing a particular film is influenced by the following main points:

It is influenced by the cost factor on the priority level. The formulation of cheap circuits is done with the use of polyester films as it offers the support to performance at low cost.

In order to attain the excellently high performance, the polyimide films are used to manufacture the flex PCB.

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