



I N N O V A T I O N

Please complete the following and email to us so we may get started on your quote.

1 Bill of Materials

- 1.1 An Item Number so we can refer to it in case we need to call with a question,
- 1.2 Component reference numbers that match your schematic and the markings on your bare circuit board,
- 1.3 Description of the part, i.e. Zener Diode, or 6 Pin Dual header, etc.
- 1.4 Full manufacturers' part number including all characters, which describe tolerances, case style, and temperature range, etc.
- 1.5 Quantity required on each board,
- 1.6 Suggested vendor or distributor and whether you have registered the part with the manufacturer where appropriate.
- 1.7 If you have a price range for a component that you have been able to negotiate, that is always useful.

2 A sample of the assembled circuit board.

This is worth a thousand words, even if the board is not the latest revision. With a sample, we can see if there is interference of one part with another, if there are parts on both sides of the boards, or if there are 'kludge' wires and cuts and jumpers, etc.

Gerber files are of course required to build the board, but they are also needed during the quoting phase so that we can see if, for example, there are components at the edge of the board that will interfere with our assembling and soldering machinery.

Additionally, it is important to supply us with all the details of the board, which, as a minimum, will include:

2.1 A top level board layout showing component placement,

2.2 Dimensions of the board,

2.3 Material from which the board will be constructed, commonly FR-4 fiber glass,

2.4 Total number of holes of all sizes in the board,

2.5 Number of different size holes, so the board house will know how many different drill sizes will be required,

2.6 Type of mask required,

2.7 Solder mask over bare copper or solder mask over tin lead. Usually you will want SMOBC as solder mask over tin lead causes mask flaking and unsightly board cosmetics. Pay the additional cost and get it right.

2.8 Copper weight, 1 oz, 2 oz, etc.

2.9 If the board is small, say 2 inches by 3 inches, plan to have the board built in a panel. If nibs are a problem after breaking the board apart, plan to have the board scored, or better still, if the volume warrants, pay a small tooling charge and get the boards in a 'push back



panel'. That requires careful consideration during layout. Make sure that components from one board do not interfere with components on the adjacent board.

3 How many products do you want us to quote over what period?

3.1 Will the order be a blanket order with releases, if so, when and how many per release?

3.2 What troubles has there been with this board, if any?

3.3 Specify any other things that are pertinent to the manufacture of the board. No one wins if we quote a circuit board assembly job and find out later that you did not share all the information with us.

Thanks for your information!

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