

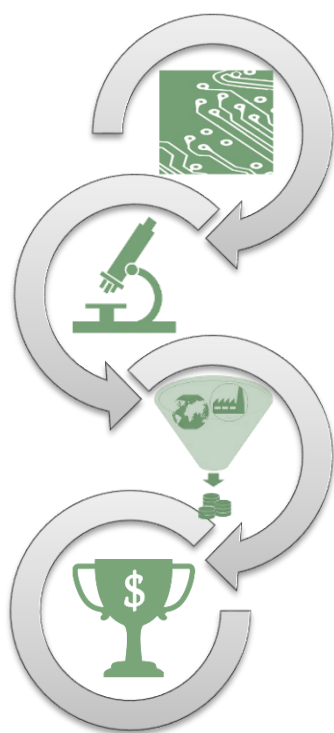
PCB Price+

COST & PRICE TOOL FOR BOARDS

THE MOST COMPLETE AND POWERFUL COSTING TOOL

From a short data input list, with no need for technical expertise, to a detailed data input list and fine tuning of electrical and physical parameters, PCB Price+ will help you to calculate the production cost and selling price of single and multilayer printed circuit boards.

HOW DOES IT WORK?



Describe your substrate

Laminate technology description, design description (size, holes, finishing), panel description, etc.

Enter the manufacturing location

Select the fab unit in the database.

Enter economical data

Set the manufacturer overhead, transport mode, annual volumes and delivery schedule.

Get the manufacturing cost

Technology cost breakdown, substrate cost breakdown, selling prices versus time, etc.

PARAMETRIC TOOL

Why do you need this tool?

- Better estimate PCB manufacturing cost
- Go further in supplier negotiations
- Benchmark products that use the same methodologies
- Identify the parameters influencing cost
- Compare different technological options
- Measure the influence of location, production volume or time on the cost and price

Who should buy this tool?

- Anyone involved in the PCB fields
- Purchasing department
- Marketing department
- System makers, users of PCB



WHAT ARE THE MAIN ADDED VALUES?



Simulate 1 to 20 Layers FR4 PCBs



Compare up to 5 scenarios



Excel friendly



Easy to set up



Updated database



Secured data

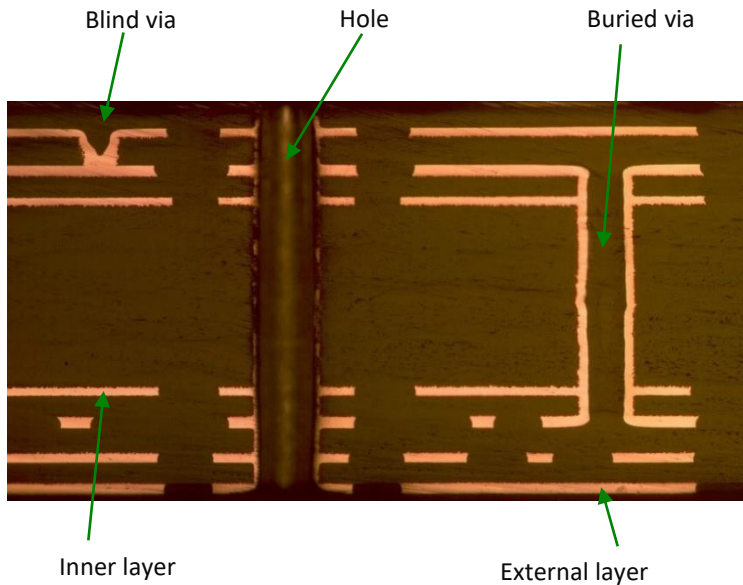


Maintenance



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EXAMPLE OF SUPPORTED PCB STRUCTURE



FR4 8 Layers substrate
By System Plus Consulting

WHICH PARAMETERS CAN BE SIMULATED?

Technology description: FR4 with Tg from 130° to 170°, number of layers, layers thickness, substrate thickness, drilling type and diameters, etc.

Design description: substrate dimensions, finishing (HASL Lead Free, ENIG, OSP,...), buried vias, blind vias, etc.

Panel description: size, spacing, border, etc.

Economical description: manufacturing yield, supplier overhead, transport mode, annual production volumes, delivery schedule, etc.

Cost parameters: labor cost by country, metal prices (Copper, Tin, Silver,...), etc.

HOW DOES PCB Price+ LOOK LIKE?

Project type: PCB
Project name: PCB FR4 6 layers
Project currency: USD

Substrate description

Technology		Layer number
FR4 Tg 130°C		6 layer(s)
Int. Conductor	Ext. Conductor	Substrate (total)
35 µm	18 µm	1.550 mm
Thickness		Stack number
35 µm		3
Drill technology		
Mechanical Drill - 400µm min.		

Plant description

Name	
Chin Poon Industrial - Jiang Su Chang Shu 1	
Company	
Chin Poon Industrial	
City	Country
Jiang Su Chang Shu	China (PRC)
Profile	
Capacity	Size
3 840 km2/year	142 000 m2
Technology	

Economical description

Date	Quantity
01/01/2012	10,000 boards
01/01/2013	10,000 boards
01/01/2014	10,000 boards
01/01/2015	10,000 boards
01/01/2016	10,000 boards
Supplier type	
PCB Manufacturer only	
Contribution	
15.0%	

Substrate cost breakdown

	2015		2016		2017		2018		Yield
	Price	Breakdown	Price	Breakdown	Price	Breakdown	Price	Breakdown	
Substrate area	1.00 dm²		1.00 dm²		1.00 dm²		1.00 dm²		100.0%
Panel used area	1.45 dm²		1.45 dm²		1.45 dm²		1.45 dm²		
Equipment	\$ 0.8912	33.9%	\$ 0.8912	33.6%	\$ 0.8912	33.2%	\$ 0.8912	32.8%	
Materials (total)	\$ 1.5172	57.8%	\$ 1.5207	57.3%	\$ 1.5243	56.8%	\$ 1.5279	56.3%	
Prepreg materials	\$ 0.2988	11.4%	\$ 0.2988	11.3%	\$ 0.2988	11.1%	\$ 0.2988	11.0%	
Conductor material	\$ 0.2483	9.5%	\$ 0.2507	9.5%	\$ 0.2532	9.4%	\$ 0.2558	9.4%	
Finish materials	\$ 0.1006	3.8%	\$ 0.1016	3.8%	\$ 0.1027	3.8%	\$ 0.1038	3.8%	
Copper	\$ 0.0903	0.6%	\$ 0.0903	0.6%	\$ 0.0903	0.6%	\$ 0.0903	0.6%	
Tin	\$ 0.0975	3.7%	\$ 0.0986	3.7%	\$ 0.0996	3.7%	\$ 0.1006	3.7%	
Silver	\$ 0.0027	0.1%	\$ 0.0027	0.1%	\$ 0.0029	0.1%	\$ 0.0029	0.1%	
Other materials	\$ 0.8695	33.1%	\$ 0.8695	32.8%	\$ 0.8695	32.4%	\$ 0.8695	32.0%	
Labour	\$ 0.1915	7.3%	\$ 0.2147	8.1%	\$ 0.2408	9.0%	\$ 0.2698	9.9%	
Building	\$ 0.0260	1.0%	\$ 0.0260	1.0%	\$ 0.0260	1.0%	\$ 0.0260	1.0%	
Yield losses	\$ 0.0000		\$ 0.0000		\$ 0.0000		\$ 0.0000		
Total substrate cost	\$ 2.6259	100.0%	\$ 2.6526	100.0%	\$ 2.6823	100.0%	\$ 2.7149	100.0%	

CONTACT

Contact

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