# **Proyecto Multicapa**

## Restricciones del fabricante.

Item	JLCPCB	NextPCB	PcbWay
Layer counts	1-6 layers	1-20 layers	1-10 layers
Material	FR-4	FR-4, Aluminum, Rogers, Copper	FR-4,Aluminum
Dielectric constant	4.5(double-side PCB)	4.2	+
Max. Dimension	400x500mm	1-2 layers: 500*600mm 4-20 layers: 400*500mm	500*1100mm (min 5*6mm)
Dimension	±0.2mm	CNC: ±0.15mm, V-CUT:	
tolerance		±0.2mm	
Thickness	± 10%	± 10%	
Tolerance			
(			
Thickness≥1.0mm)			
Thickness	± 0.1mm	± 0.1mm	
Tolerance			
(			
Thickness<1.0mm)			
Drill Hole Size	0.20mm- 6.30mm	0.15-6.5mm	
(Mechanical)			
Drill Hole Size	+0.13/-0.08mm	≤0.05mm	
Tolerance			
Blind/Buried Vias	Don't support	≥ 20μm	
Min. Via diameter	0.4mm	0.45mm	
Hole size Tolerance	+0.13mm/-	±0.075mm	
(Plated)	0.08mm		
Hole size Tolerance	±0.2mm	±0.05mm	
(Non-Plated)			
Rectangle Hole/Slot	Don't support	With or without fillet angle	
1oz Copper	0.13mm	3.5mil (single side)	
		(3.5mil≈0.09mm)	
2 oz Copper	0.2mm	4.5mil (single side)	
		(4.5mil≈0.11mm)	

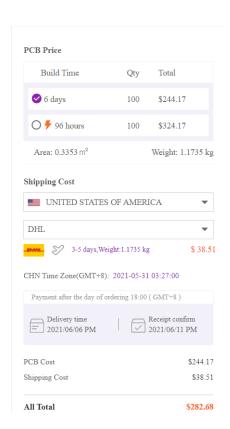
Hole to hole	0.5mm	>12mil(Ayaid aandyatiya	
	0.5mm	≥12mil(Avoid conductive	
clearance(Different		anodic	
nets)	0.2	filament)(12mil≈0.30mm)	
Min. Hole size	0.2mm	0.2mm	
Via to Via	0.254mm	≥8mil (8mil≈0.20mm)	
clearance(Same			
nets)		0.10	
Pad to Pad	0.5mm	≥0.40mm	
clearance(Pad			
without hole,			
Different nets)			
SMD pad to SMD	-	≥0.15mm	
pad clearance(Pad			
without hole,			
different nets)			
Via to Track	0.254mm	≥7mil (7mil≈0.18mm)	
PTH to Track	0.33mm	≥9mil (9mil≈0.23mm)	
NPTH to Track	0.254mm	≥8mil (8mil≈0.20mm)	
Pad to Track	0.2mm	≥9mil (9mil≈0.23mm)	
H/HOZ (Inner	5mil (0.127mm)	2.5mil (2.5mil≈0.06mm)	
layer)			
loz (Outer layer)	1/2 layers: 5mil	3mil (3mil≈0.08mm)	
	(0.127mm)		
	4/6 layers:		
	3.5mil(0.09mm)		
2oz (Outer layer)	8mil (0.2mm)	5.5mil (5.5mil≈0.14mm)	
Solder mask	0.5mm	≥1.5mil (1.5mil≈0.04mm)	
opening/ expansion			
Solder bridge	0.2mm(green)	Green: 3.5mil	
	0.254mm(other	Black/White: 5mil	
	colors)	other solder mask: 4mil	
Solder mask color	green, red, yellow,	Green/Red/Yellow/Blue/White/	Green ,Red,
	blue, white, and	Matte Black/Black	Yellow, Blue,
	black.		White ,Black
Solder mask	3.8	3.5	
dielectric constant			
Solder mask	10-15UM	Solder mask thickness on base	
thickness		material: 0.8mil, solder mask	
		thickness on copper: 0.6mil	
Minimum Line	6 mil (0.153mm)	Silkscreen printing≥5mil	
Width		(5mil≈0.12mm)	
		Printer printing ≥ 3 mil	
		(3mil≈0.08mm)	
Minimum text	32 mil (0.8mm)	Silkscreen printing ≥ 30mil	
height	, , ,	(30mil≈0.76mm)	
	I.	(Common, other)	

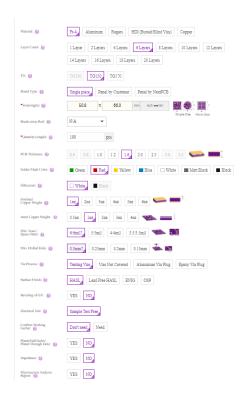
		Printer printing≥24mil (24mil≈0.61mm)	
Character width to	1:6	≥ 6:1	
height ratio			
Pad To Silkscreen	0.15mm	>6mil (6mil≈0.15mm)	
Trace to Outline	0.2mm	0.2mm	
Trace to V-cut line	0.4mm	0.4mm	

# **Cotizaciones:**

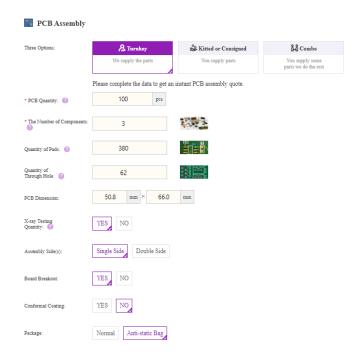
## **Next PCB:**

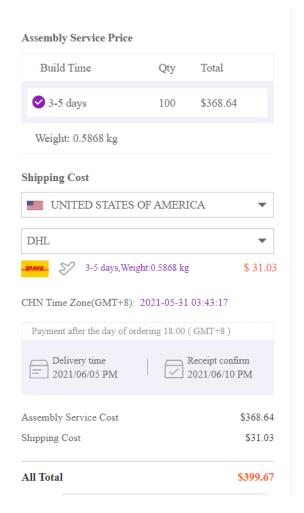
## **Fabricación**





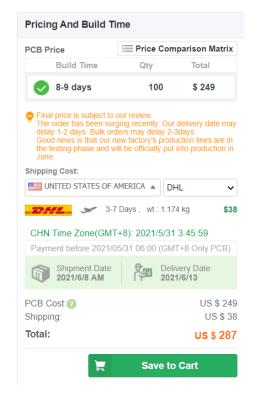
## Ensamble:

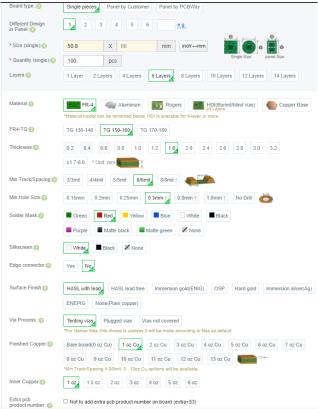




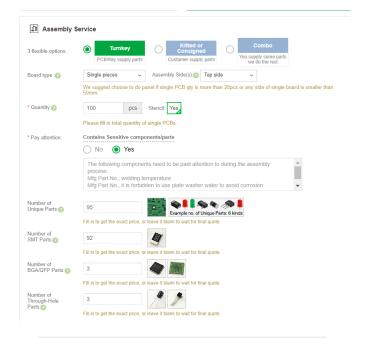
## PCB way:

#### Fabricación





## Ensamble



## **Pricing And Build Time**

#### **Assembly Service Price**



Final price is subject to our review.

The order has been surging recently. Our delivery date may delay 1-2 days. Bulk orders may delay 2-3days.

Good news is that our new factory's production lines are in the testing phase and will be officially put into production in June.

#### Shipping Cost:



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•	En JLCPCB no es posible fabricar ya que no pueden fabricar PCB con vías enterradas.