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	4.0	
Max. Dimension	400x500mm	1-2 layers: 500*600mm 4-20 layers: 400*500mm	500*1100mm (min 5*6mm)	
Dimension tolerance	±0.2mm	CNC: ±0.15mm, V-CUT: ±0.2mm	0.2 mm	
Thickness Tolerance (Thickness>1.0mm)	± 10%	± 10%	± 10%	
Thickness Tolerance (Thickness<1.0mm)	± 0.1mm	± 0.1mm	± 0.1mm	
Drill Hole Size (Mechanical)	0.20mm- 6.30mm	0.15-6.5mm	0.20-6.5mm	
Drill Hole Size Tolerance	+0.13/-0.08mm	≤0.05mm	≤0.05mm	
Blind/Buried Vias	Don't support	≥ 20µm	≥ 25µm	
Min. Via diameter	0.4mm	0.45mm	0.4mm	
Hole size Tolerance (Plated)	+0.13mm/- 0.08mm	±0.075mm	±0.10mm	
Hole size Tolerance (Non-Plated)	±0.2mm	±0.05mm	±0.10mm	
Rectangle Hole/Slot	Don't support	With or without fillet angle		
1oz Copper	0.13mm	3.5mil (single side) (3.5mil≈0.09mm)	0.15mm	
2 oz Copper	0.2mm	4.5mil (single side) (4.5mil≈0.11mm)	0.20mm	

Hole to hole	0.5mm	≥12mil(Avoid conductive	0.40mm	
clearance(Different		anodic		
nets)		filament)(12mil≈0.30mm)		
Min. Hole size	0.2mm	0.2mm	0.2mm	
Via to Via	0.254mm	≥8mil (8mil≈0.20mm)	0.254mm	
clearance(Same				
nets)				
Pad to Pad	0.5mm	≥0.40mm	0.50mm	
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)	0.127mm	
layer)				
1oz (Outer layer)	1/2 layers: 5mil	3mil (3mil≈0.08mm)	0.127mm	
	(0.127mm)			
	4/6 layers:			
	3.5mil(0.09mm)			
2oz (Outer layer)	8mil (0.2mm)	5.5mil (5.5mil≈0.14mm)	0.2mm	
Solder mask	0.5mm	≥1.5mil (1.5mil≈0.04mm)	0.4mm	
opening/ expansion				
Solder bridge	0.2mm(green)	Green: 3.5mil	0.254mm(all	
	0.254mm(other	Black/White: 5mil	colors)	
	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	3.6	
dielectric constant	10.1====			
Solder mask	10-15UM	Solder mask thickness on base	-	
thickness		material: 0.8mil, solder mask		
3.6	6 11 (0 4 72	thickness on copper: 0.6mil		
Minimum Line	6 mil (0.153mm)	Silkscreen printing≥5mil	-	
Width		(5mil≈0.12mm)		
		Printer printing≥3mil		
3.4	22 11 (0.0	(3mil≈0.08mm)		
Minimum text	32 mil (0.8mm)	Silkscreen printing≥30mil	-	
height		(30mil≈0.76mm)		

		Printer printing≥24mil (24mil≈0.61mm)	
Character width to	1:6	≥ 6:1	1:7
height ratio			
Pad To Silkscreen	0.15mm	>6mil (6mil≈0.15mm)	0.20mm
Trace to Outline	0.2mm	0.2mm	0.20mm
Trace to V-cut line	0.4mm	0.4mm	0.40mm

SE UTILIZARON LAS REGLAS DEL FABRICANTE "NextPCB"

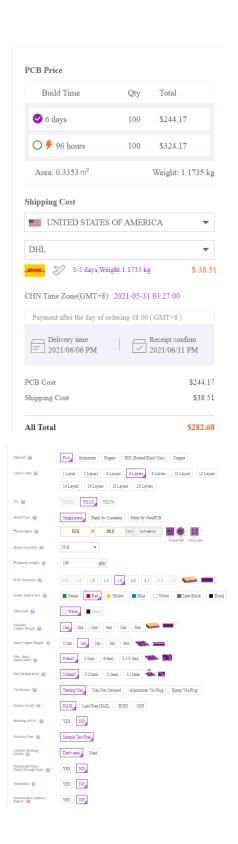
CALCULADORA DE ANCHO DE TRAZA DE PCB ANSI							
Datos de entrada		Datos de resultados					
				Rastros internos		Rastros externos	
Campo	Valor	Unidades	Datos de seguimiento	Valor	Unidades	Valor	Unidades
Corriente (máx. 35 A)	0.5	Amperios ~	Ancho de trazo requerido	12.13	mil 🗸	4.66	mil 🗸
Aumento de temperatura (máx.100 ° C)	10	° C 🗸	Área de sección transversal	16.3	mil ² ∨	6.26	mil² 🗸
Espesor de Cu	1	oz / ft² 🗸	Resistencia	0.13	Ohmios	0.34	Ohmios
Temperatura ambiente	25	° C 🗸	Caída de voltaje	0.07	Voltios	0.17	Voltios
Longitud del conductor	3	pulgadas 🗸	Pérdida	0.03	Vatios	0.09	Vatios
Voltaje pico	5	Voltios	Espacio de vía requerido	24	mil 🗸		

Cálculo de ancho de los tracks para el PCB.

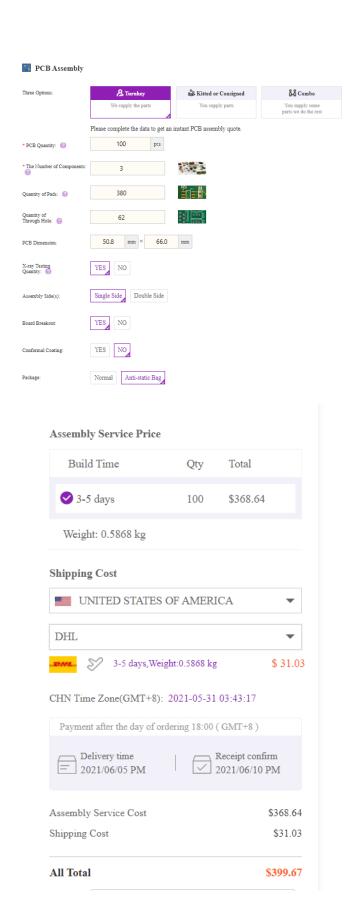
Cotizaciones:

Next PCB:

Fabricación

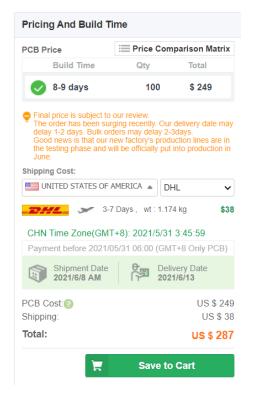


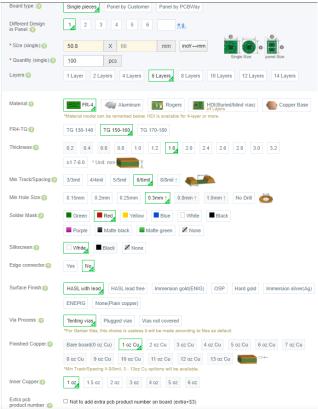
Ensamble:



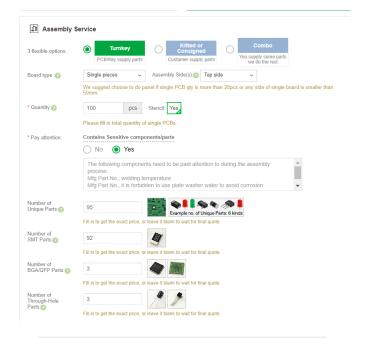
PCB way:

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:



Save to Cart

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