

JLCPCB Impedance Calculator

The JLCPCB Impedance Calculator computes track width values and recommended stack-ups from user-input values of board layer, thickness, copper impedance, trace spacing (for edge-coupled pairs), and impedance trace to copper gap (coplanar waveguides). [Click here](#) to see the user guide of our calculator.

* The first stack-up calculated below is highly recommended as it has lowest cost and quickest turn-around.

Layers 4 ▾ PCB Thickness 1.6 ▾ Inner Copper Weight 0.5oz ▾ Outer Copper Weight 1oz ▾ Unit mil


Impedance Configure

+ New Impedance

 Duplicate Impedance

Impedance (Ω)	Type	Signal Layer	Top Ref	Bottom Ref	Trace Spacing (mil)	Impedance
72	Single Ended (Non coplanar) ▾	L1 ▾	/ ▾	L2 ▾	/	/
50	Single Ended (Non coplanar) ▾	L1 ▾	/ ▾	L2 ▾	/	/
90	Differential Pair (Non coplanar) ▾	L1 ▾	/ ▾	L2 ▾	4	/
82	Single Ended (Non coplanar) ▾	L1 ▾	/ ▾	L2 ▾	/	/
90	Differential Pair (Non coplanar) ▾	L1 ▾	/ ▾	L2 ▾	5	/
90	Differential Pair (Non coplanar) ▾	L1 ▾	/ ▾	L2 ▾	6	/

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 JLC04161H-7628(Standard)

JLC04161H-3313

JLC04161H-3313A(Special)

JLC04161H-7628B(Special)

JLC04161H-7

Impedance (Ω)	Type	Signal Layer	Top Ref	Bottom Ref	Trace Width	Trace Spacing	In cc
72	Single Ended (Non coplanar)	L1	/	L2	5.9600	/	/
50	Single Ended (Non coplanar)	L1	/	L2	13.7500	/	/
90	Differential Pair (Non coplanar)	L1	/	L2	6.7100	4.0000	/
82	Single Ended (Non coplanar)	L1	/	L2	4.0100	/	/
90	Differential Pair (Non coplanar)	L1	/	L2	8.3100	5.0000	/
90	Differential Pair (Non coplanar)	L1	/	L2	9.5300	6.0000	/
Layer	Material			Thickness (mil)		Thickness (mm)	
L1	Outer Copper Weight1oz			1.38		0.0350	
Prepreg	7628, RC 49%, 8.6 mil			8.28		0.2104	
L2	Inner Copper Weight			0.60		0.0152	
Core	1.1mm H/HOZ with copper			41.93		1.0650	
L3	Inner Copper Weight			0.60		0.0152	
Prepreg	7628, RC 49%, 8.6 mil			8.28		0.2104	

L4	Outer Copper Weight1oz	1.38	0.0350
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