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JLCPCB Impedance Calculator

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

Impedance Configure

   ➕ New Impedance   ▭ Duplicate Impedance   🖩 Calculate

Impedance (Ω)	Type	Signal Layer	Top Ref	Bottom Ref	Trace Spacing（mm）	Impedance trace to copper (mm)
50	Single Ended (Non coplanar) ⌄	L1 ⌄	/ ⌄	L2 ⌄	/	/
90	Differential Pair (Non coplanar) ⌄	L1 ⌄	/ ⌄	L2 ⌄	0.2	/

‹   JLCH04161HN1-1078(通用/成品板厚1.52mm±10%)   **JLC04161H-3313(Finished thickness1.56mm±10%)**   JLC04161H-3313A(Special/Finished thickne ›

Impedance (Ω)	Type	Signal Layer	Top Ref	Bottom Ref	Trace Width	Trace Spacing	Impedance trace to copper
50	Single Ended (Non coplanar)	L1	/	L2	0.1565	/	/
90	Differential Pair (Non coplanar)	L1	/	L2	0.1575	0.2000	/

Layer	Material	Thickness (mil)	Thickness (mm)
L1	Outer Copper Weight1oz	1.38	0.0350
Prepreg	3313 RC57% 4.2mil	3.91	0.0994
L2	Inner Copper Weight	0.60	0.0152
Core	1.3mm H/HOZ with copper	49.80	1.2650
L3	Inner Copper Weight	0.60	0.0152
Prepreg	3313 RC57% 4.2mil	3.91	0.0994
L4	Outer Copper Weight1oz	1.38	0.0350

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