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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	2	PCB Thickness	1.6	Outer Copper Weight	1oz	Unit	mm
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Impedance Configure[+ New Impedance](#)[Duplicate Impedance](#)[Calculate](#)

Impedance (Ω)	Type	Signal Layer	Top Ref	Bottom Ref	Trace Spacing (mm)	Impedance trace to copper (mm)
90	Coplanar Differential Pair	L1	/	L2	0.15	0.15
50	Coplanar Single Ended	L1	/	L2	/	0.15

JLC0216

Impedance (Ω)	Type	Signal Layer	Top Ref	Bottom Ref	Trace Width	Trace Spacing	Impedance trace to copper
90	Coplanar Differential Pair	L1	/	L2	0.2764	0.1500	0.1500
50	Coplanar Single Ended	L1	/	L2	0.6322	/	0.1500
Layer	Material			Thickness (mil)		Thickness (mm)	
L1	Outer Copper Weight			1.38		0.0350	
Core	1.5mm 1/1OZ with copper (double-sided)			57.68		1.4650	
L2	Outer Copper Weight			1.38		0.0350	

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