

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.

Layers2

PCB Thickness1.6

Outer Copper Weight1oz

Unitmm

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 1/10Z with copper (double-sided)			57.68		1.4650	
L2	Outer Copper Weight			1.38		0.0350	

💬 Online Chat >

Chat with our live agent for fast reply.

Mon-Fri: 24 hours, Sat: 9am-6pm, GMT+8

✉ Email Us >

Contact us at support@jlcpcb.com

Typically reply within hours.

🔍 Help Center >

Get instant answers.

24/7 Available.

Products

FR-4 PCBs

Flexible PCBs

Metal Core PCBs

High-Frequency PCBs

PCBA Service

PCB Layout

SMT Stencils

Flexible Heater

Support

Help Center

Contact Us

Shipping & Delivery

Payment Methods

How to Order

How to Track

After-Sales Service

Blog

Company

About Us

Quality Assurance

How We Work

Certifications

Security

JLCAPI

News

Electronics

EasyEDA

JLCPCB

JLCCDM

LCSC

OSHWLAB

Mechanical

JLC3DP

JLCCNC

JLCMC



Download JLCONE APP

Windows

MAC

Android

iOS

CONNECT WITH US

