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## Multilayer high precision PCB's with impedance control

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JLCPCB can produce High-precision multilayer board with capabilities listed in below table.

Min. Trace width/Spacing	Min. Via	Min. BGA
3.5mil	0.2mm	0.3mm

It is very convenient for customers to conduct impedance matching design according to JLCPCB's laminated s the following stackup strictly.

### Controlled Impedance PCB Parameters and Stackup

#### 1.Prepreg dielectric constant:

Prepreg type	Dielectric constant
7628	4.6
2313	4.05
2116	4.25

#### 2.Solder mask Parameters

Solder mask thickness over the laminate	Solder mask thickness over traces	Sc
0.8mil	0.5mil	3.8

For your convenience, we have designed a Impedance Calculator to help you calculate the impedance and tra

### 4-Layer Impedance Control Stackup

#### Thickness

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0.8mm

1.0mm

1.2mm

1.6mm

2.0mm

Current layer:4-layer

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## a) JLC7628 Stackup:

Layer	Material Type	Thickness	
Top Layer1	Copper	0.035 mm	
Prepreg	7628*1	0.2 mm	
Inner Layer2	Copper	0.0175 mm	1.1mm (with c
Core	Core	1.065 mm	
Inner Layer3	Copper	0.0175 mm	
Prepreg	7628*1	0.2 mm	
Bottom Layer4	Copper	0.035 mm	

## b) JLC2313 Stackup:

Layer	Material Type	Thickness	
Top Layer1	Copper	0.035 mm	
Prepreg	2313*1	0.1 mm	
Inner Layer2	Copper	0.0175 mm	1.3 mm (with c
Core	Core	1.265 mm	
Inner Layer3	Copper	0.0175 mm	
Prepreg	2313*1	0.1 mm	
Bottom Layer4	Copper	0.035 mm	

## 6-Layer Impedance Control Stackup

Thickness

1.2mm

1.6mm

2.0mm

Current layer:6-layer

## b) JLC2313 Stackup:

Layer	Material Type	Thickness	
Top Layer1	Copper	0.035 mm	
Prepreg	2313*1	0.1 mm	

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Inner Layer2	Copper	0.0175 mm	0.6 mm (with c
Core	Core	0.565 mm	
Inner Layer3	Copper	0.0175 mm	
Prepreg	2116*1	0.127 mm	
Bottom Layer4	Copper	0.0175 mm	0.6 mm (with c
Core	Core	0.565 mm	
Inner Layer5	Copper	0.0175 mm	
Prepreg	2313*1	0.1 mm	
Bottom Layer6	Copper	0.035 mm	

Note: The 6-Layer board temporarily only provides JLC2313 Stackup.

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