Conductor Spacing | Conductor Impedance | Conversion Data | Planar Inductors | Plane Calculator | Thermal

Fusing Current | Embedded Resistors | PPM Calculator | Crosstalk Calculator | Wavelength Calculator | Er Effective

Via Properties | Conductor Properties | Bandwidth & Max Conductor Length | **Differential Pairs** | Padstack Calculator | Mechanical Information

Differential Pairs

Conductor Width (W): 3.1 mils

Target Zdiff: 100 Ohms

Conductor Spacing (S): 4 mils

Conductor Height (H1): 4 mils

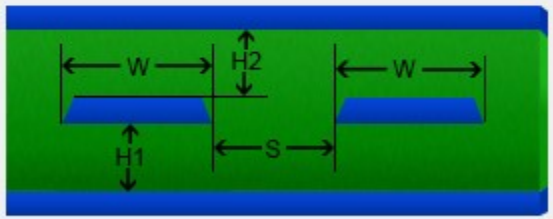
Conductor Height (H2): 3.9 mils

Formula Restrictions:

0.1 < W/H < 3.0
0.1 < S/H < 3.0

W/H = 0.360

S/H = 0.465



Zdifferential: 100.501 Ohms

Zo: 55.653 Ohms

+/- Tolerance = 10%

110.551 Ohms

90.451 Ohms

Options

Base Copper Weight

- 0.25oz
- (•) 0.5oz
- 1oz
- 1.5oz
- 2oz
- 2.5oz
- 3oz
- 4oz
- 5oz

Plating Thickness

- Bare PCB
- 0.5oz
- (•) 1oz
- 1.5oz
- 2oz
- 2.5oz
- 3oz

Differential Layer

- Edge Cpld Ext
- Edge Cpld Int Sym
- (•) Edge Cpld Int Asym
- Edge Cpld Embed
- Broad Cpld Shld
- Broad Cpld NShld

Units

- (•) Imperial
- Metric

Substrate Options

Material Selection

Er: 3.86

Tg (°C): 130

Temp Rise (°C): 20

Temp in (°F) = 36.0

Ambient Temp (°C): 22

Temp in (°F) = 71.6

Print | Solve!

Information

Total Copper Thickness
0.70 mils

Conductor Temperature
Temp in (°C) = N/A
Temp in (°F) = N/A

Via Thermal Resistance
N/A

Via Count: 10
N/A

Via Voltage Drop
N/A

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