

PCB

Board size: 95.0x46.0 mm (3.74x1.81 inches)

- This is the size of the rectangle that contains the board
- Thickness: 1.6 mm (63 mils)
- Material: FR4
- Finish: None
- Layers: 4
- Copper thickness: 35 μ m

Solder mask: TOP / BOTTOM

- Color: Green

Silk screen: TOP / BOTTOM

- Color: White

Stackup:

Name	Type	Color	Thickness	Material	Epsilon_r	Loss tangent
F.SilkS	Top Silk Screen					
F.Paste	Top Solder Paste					
F.Mask	Top Solder Mask		10			
F.Cu	copper		35			
dielectric 1	core		480	FR4	4.5	0.020
In1.Cu	copper		35			
dielectric 2	prepreg		480	FR4	4.5	0.020
In2.Cu	copper		35			
dielectric 3	core		480	FR4	4.5	0.020
B.Cu	copper		35			
B.Mask	Bottom Solder Mask		10			
B.Paste	Bottom Solder Paste					
B.SilkS	Bottom Silk Screen					

Important sizes

Clearance: 0.2 mm (8 mils)

Track width: 0.25 mm (10 mils)

- By design rules: 0.2 mm (8 mils)

Drill: 0.5 mm (20 mils)

- Vias: 0.5 mm (20 mils) [Design: 0.4 mm (16 mils)]
- Pads: 1.05 mm (41 mils)

- The above values are real drill sizes, they add 0.1 mm (4 mils) to plated holes (PTH)

Via: 0.8/0.4 mm (31/16 mils)

- By design rules: 0.4/0.3 mm (16/12 mils)
- Micro via: yes [0.2/0.1 mm (8/4 mils)]
- Buried/blind via: yes
- Total: 43 (thru: 43 buried/blind: 0 micro: 0)

Outer Annular Ring: 0.15 mm (6 mils)

- By design rules: 0.2 mm (8 mils)

Eurocircuits class: 4B - Using min drill 0.5 mm for an OAR of 0.15 mm

General stats

Components count: (SMD/THT)

- Top: 52/8 (SMD + THT)
- Bottom: 0/0 (NONE)

Defined tracks:

Used tracks:

- 0.25 mm (10 mils) (93) defined: no
- 0.5 mm (20 mils) (169) defined: no

Defined vias:

Used vias:

- 0.8/0.4 mm (31/16 mils) (Count: 43, Aspect: 2.0 A) defined: no

Holes (excluding vias):

- 0.95 mm (37 mils) (4)
- 1.0 mm (39 mils) (5)
- 1.2 mm (47 mils) (8)
- 2.7 mm (106 mils) (4)

Oval holes:

- 1.0x3.0 mm (39x118 mils) (3)

Drill tools (including vias and computing adjusts and rounding):

- 0.5 mm (20 mils) (43)
- 1.05 mm (41 mils) (4)
- 1.1 mm (43 mils) (8)
- 1.3 mm (51 mils) (8)
- 2.8 mm (110 mils) (4)