

ANATHING-FRONT V1.2 production hints

Please read this document – it contains important hints for pcb production and assembly !

General pcb production parameters:

material	FR4
boardsize	240 x 202 mm
thickness	3.0 mm (important !)
layers	2
soldermask	white / cold white
silkprint	black
copper	1 oz
minimum spacing	6 mil
minimum track width	6 mil
minimum drill size	0.3mm
test	flying probe
surface	immersion gold (!)
tolerance of big plated holes	2.1mm +/- 0.1mm (final size)
border	must be clean milled outline – no rails, no broken edges

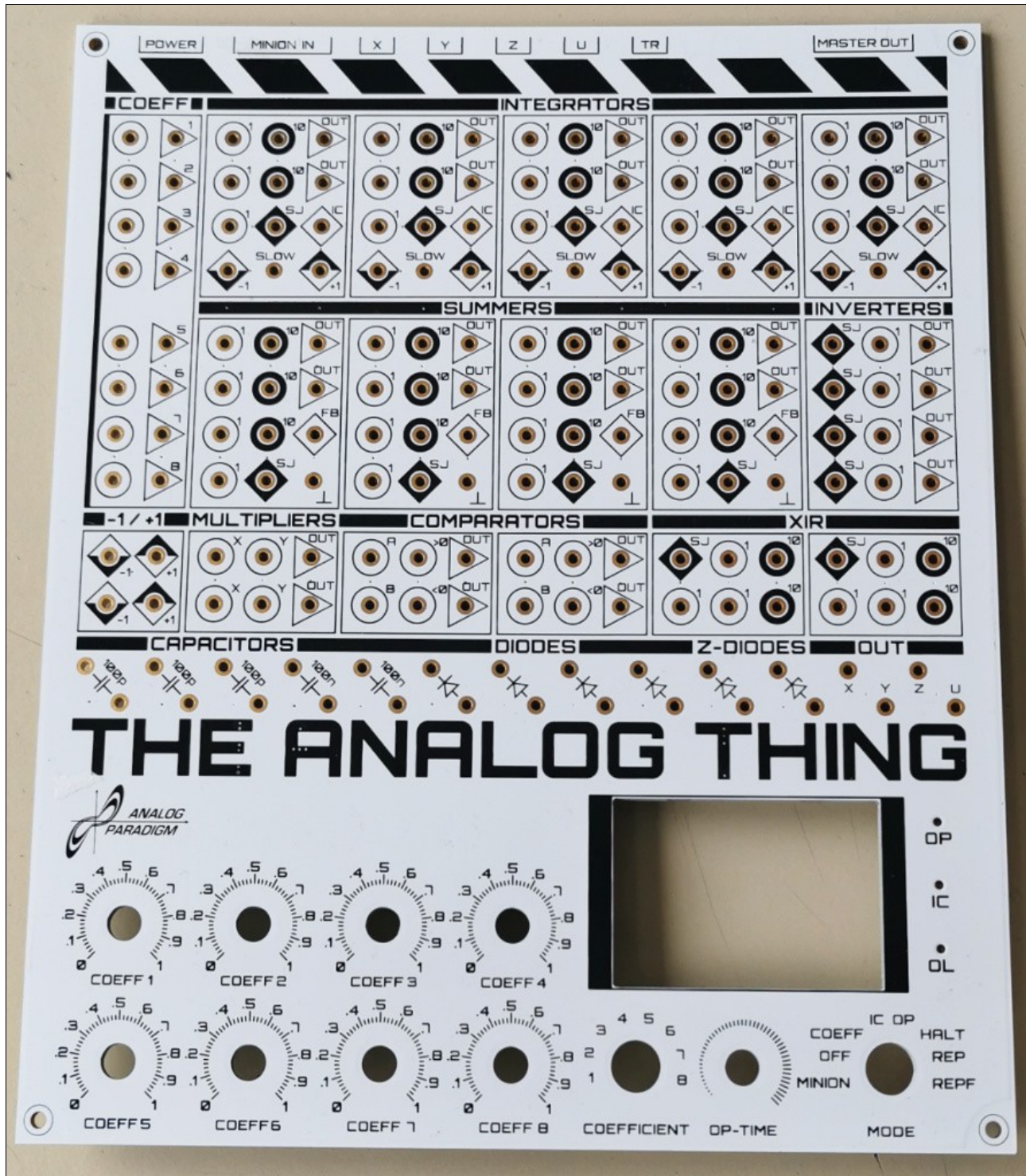
Files containing in production zip:

Bottom_Copper.gbr	copper layer (bottom)
Bottom_Paste Mask/Stencil.gbr	mask for solderpaste for producing stencil (bottom)
Bottom_Solder Mask.gbr	soldermask layer (bottom)
Bottom_Silkscreen.gbr	silkscreen layer (bottom)
Top_Copper.gbr	copper layer (top)
Top_Solder Mask.gbr	soldermask layer (top)
Top_Silkscreen.gbr	silkscreen layer (top)
Drill Data – Through Hole	drill data and milling data for plated holes and longholes
Drill Data – Through Hole Unplated	drill data and milling data unplated, board outline
(BOM).csv	bill of materials and description of parts
Component Positions.csv	component positions of all parts in mil (1/1000 inch)
ANATHING-FRONT_V12_doc.pdf	this document

Pictures of the final produced board

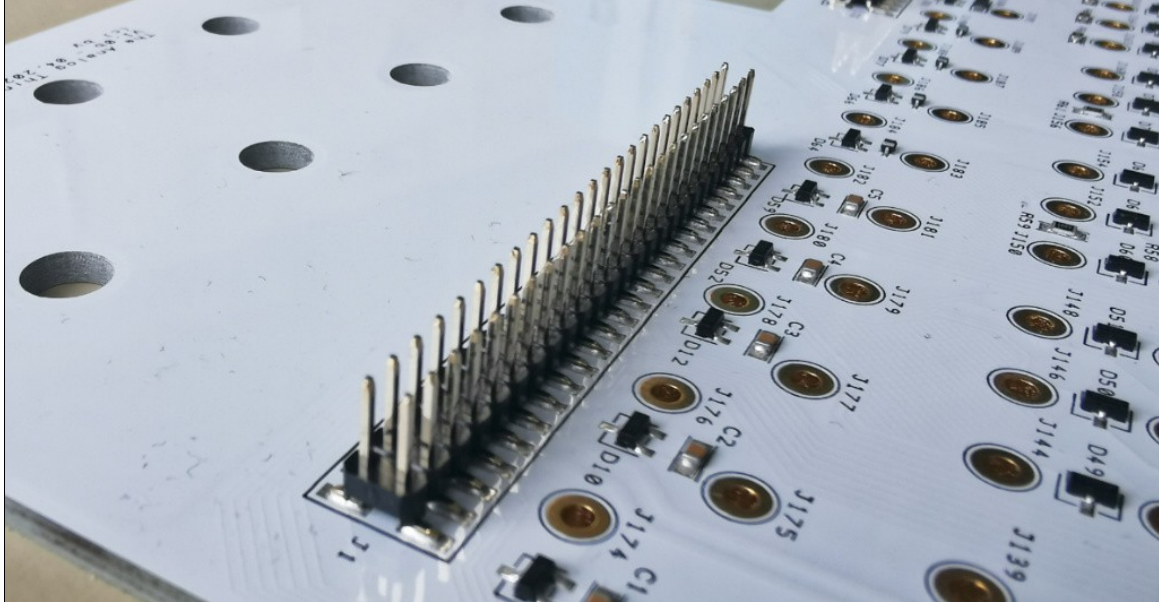
Front-View (Top layer shown)

Attention – this picture shows a previous version – the actual version has round corners (!)



Detail 1:

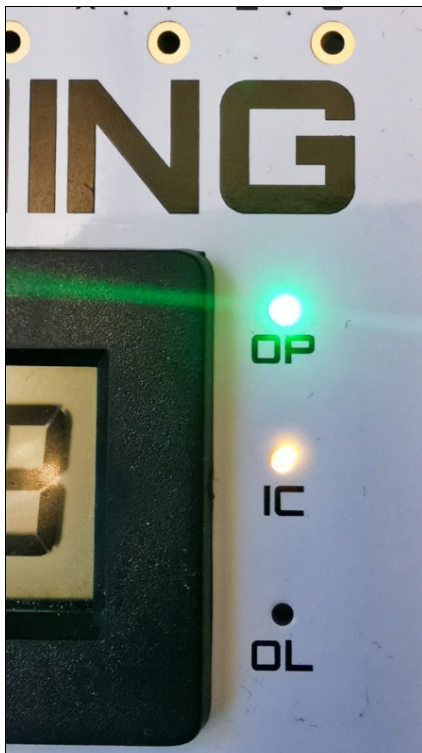
The assembled parts J1 and J2 must be mounted precisely. These are the main connectors to the corresponding ANATHING-BASE pcb.



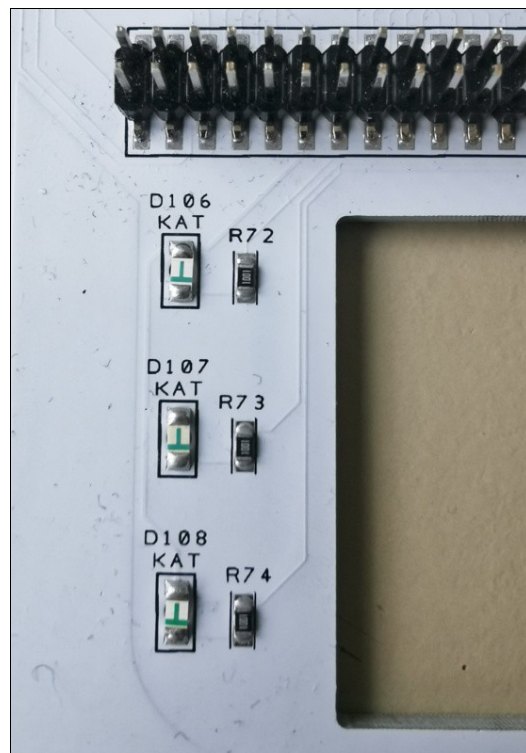
Detail 2:

The LEDs must be mounted correctly and mounted – cathode is upper. These are special reverse mount LEDs and soldered on the bottom layer but shine through the board.

Top layer



Bottom layer




Pictures of the Inolux IN-S124 series LEDs.

IN-S124BRG

In Stock: 21.582

Inolux




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Price	Ext. Price
76 €	0,38 €
77 €	2,47 €
78 €	15,80 €
74 €	124,00 €
03 €	206,00 €
96 €	960,00 €
24.000	0,093 €
50.000	2.232,00 €
	0,09 €
	4.500,00 €

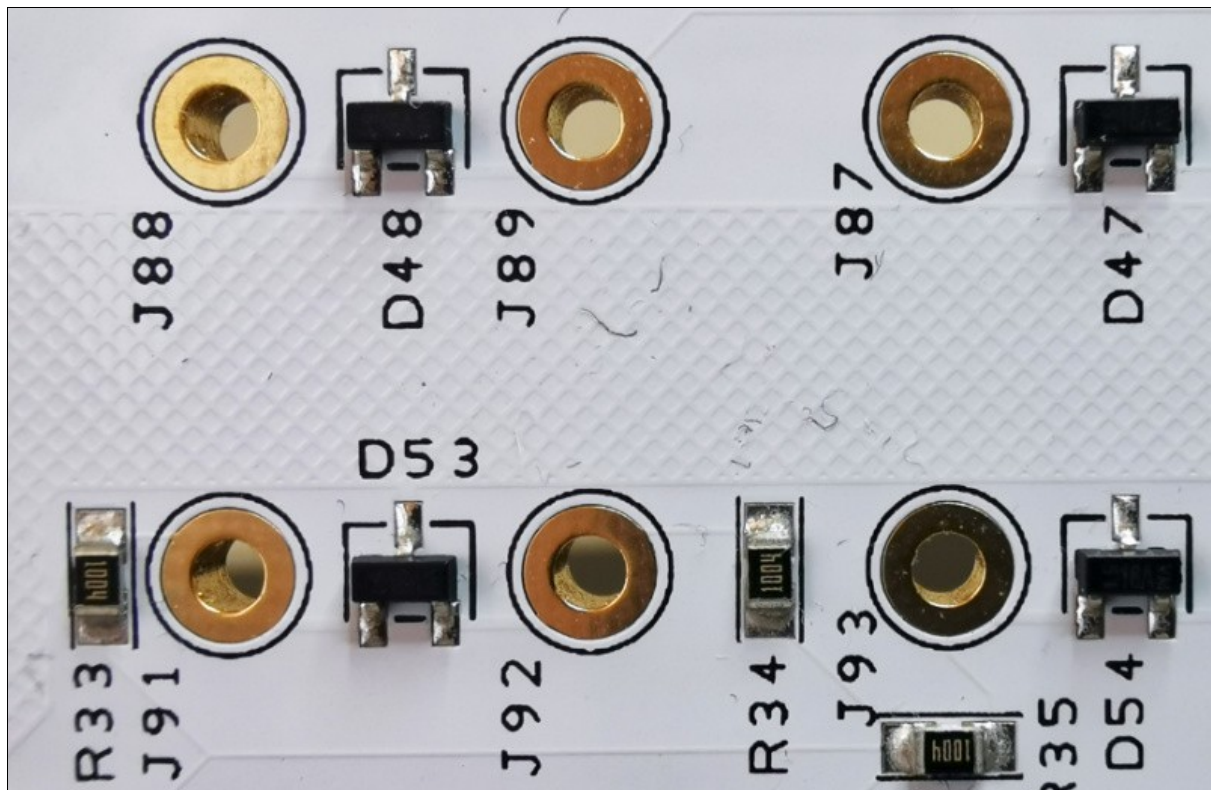
† A MouseReel™ fee of 5,00 € will be added and calculated in your basket. All MouseReel™ orders are non-cancellable and non-returnable.

Specifications

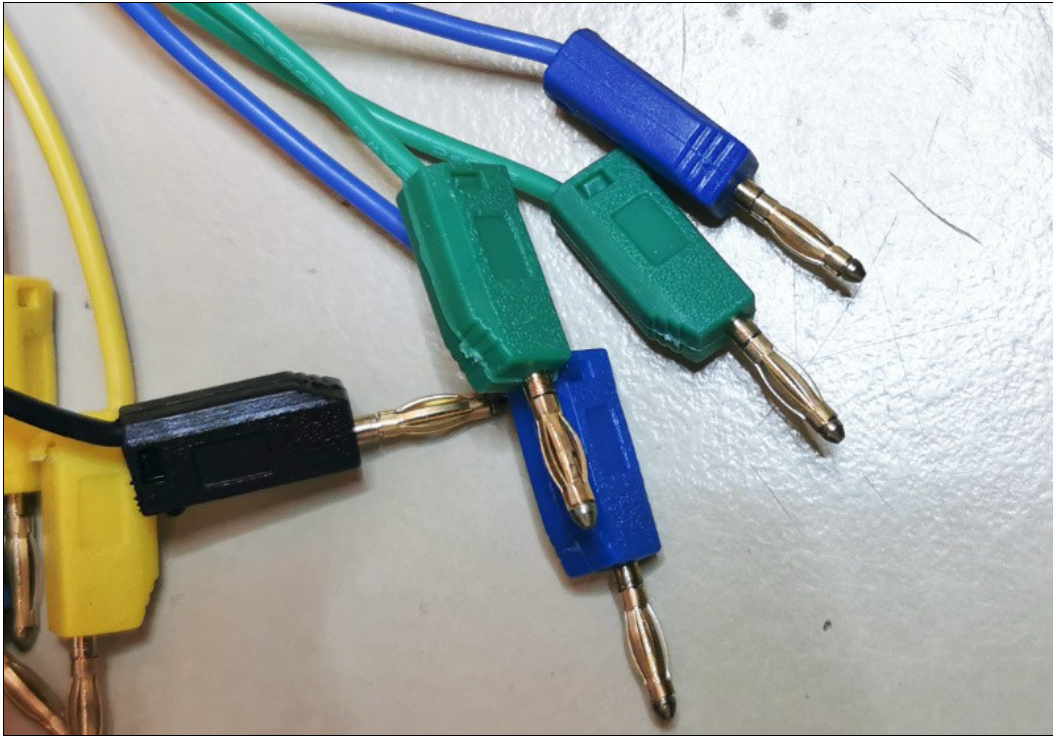
Product Attribute	Attribute Value	Search Similar
Manufacturer:	Inolux	<input type="checkbox"/>
Product Category:	Standard LEDs - SMD	<input checked="" type="checkbox"/>

Detail 3:

The around 200 gold plated holes are used with 2mm patch cables. It is important, that the final size is 2.1mm +/- 0.1mm in diameter.

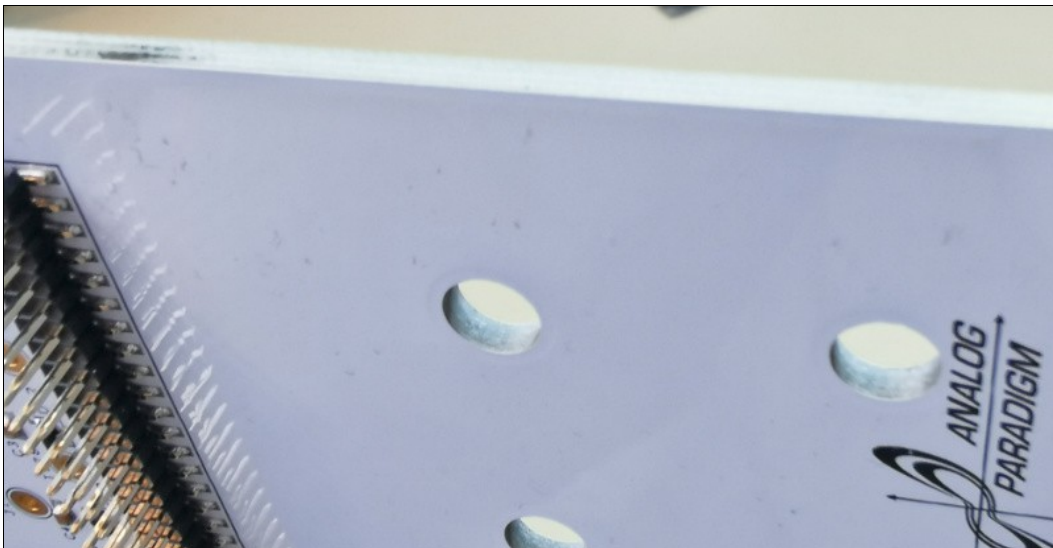


Here are the typical cables used with this pcb later.



Detail 4:

The board outline must be milled as a plain surface like seen in the picture. Rails which are needed during assembly must be removed and the surface need to be cleaned (no broken / breakout edges wanted). The corners need a round outline, no pointed corners.



Round corner shown below (all 4 corners).

