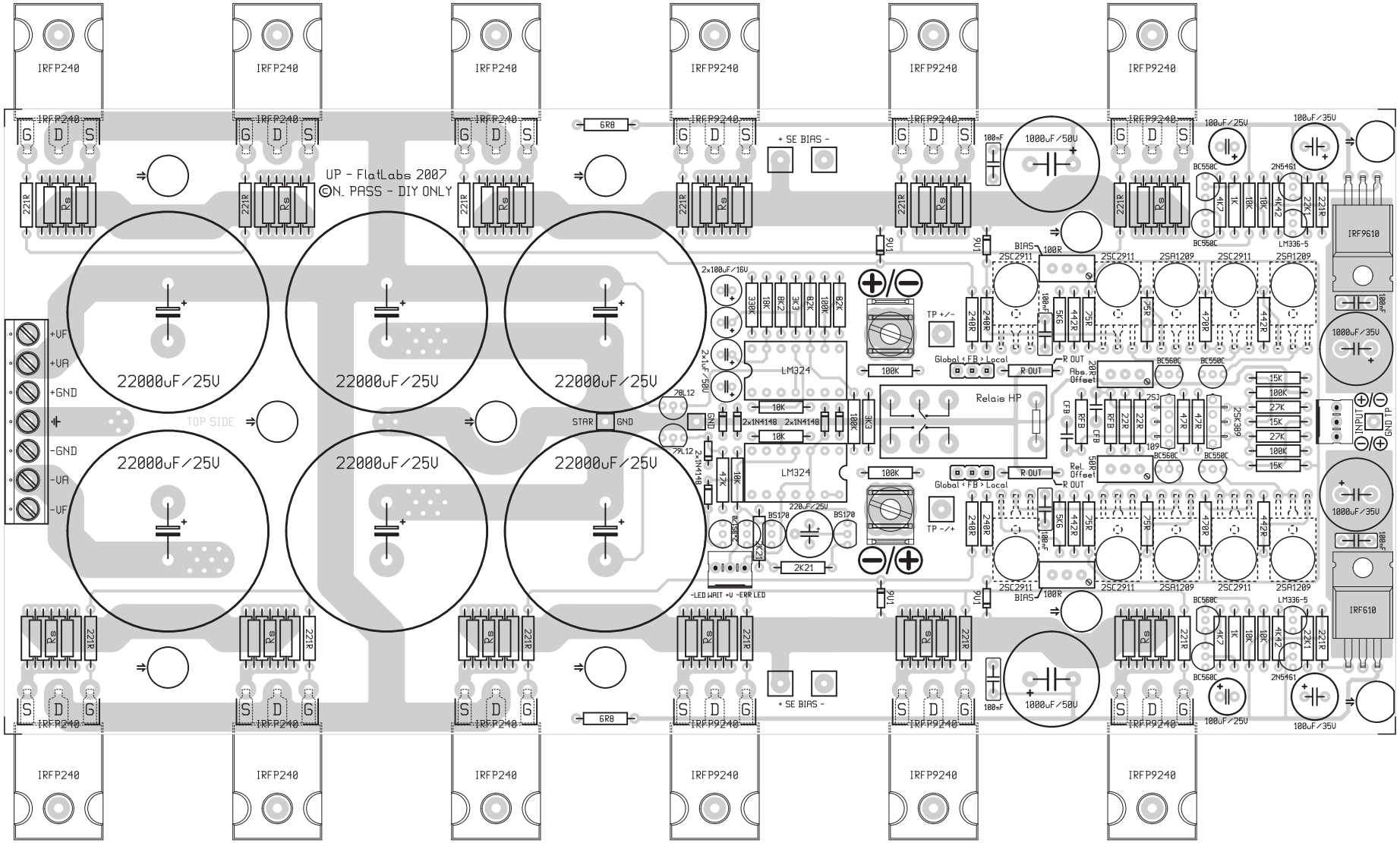
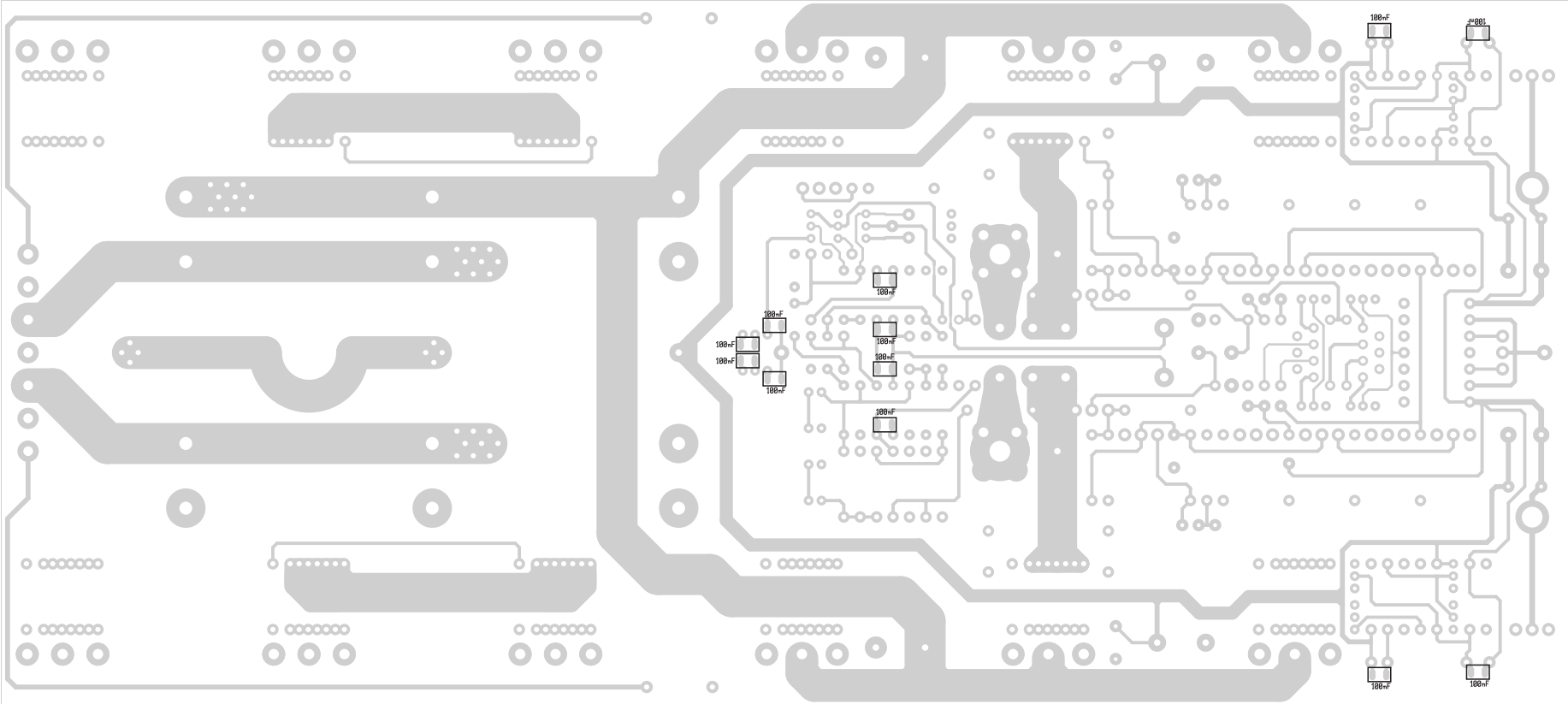
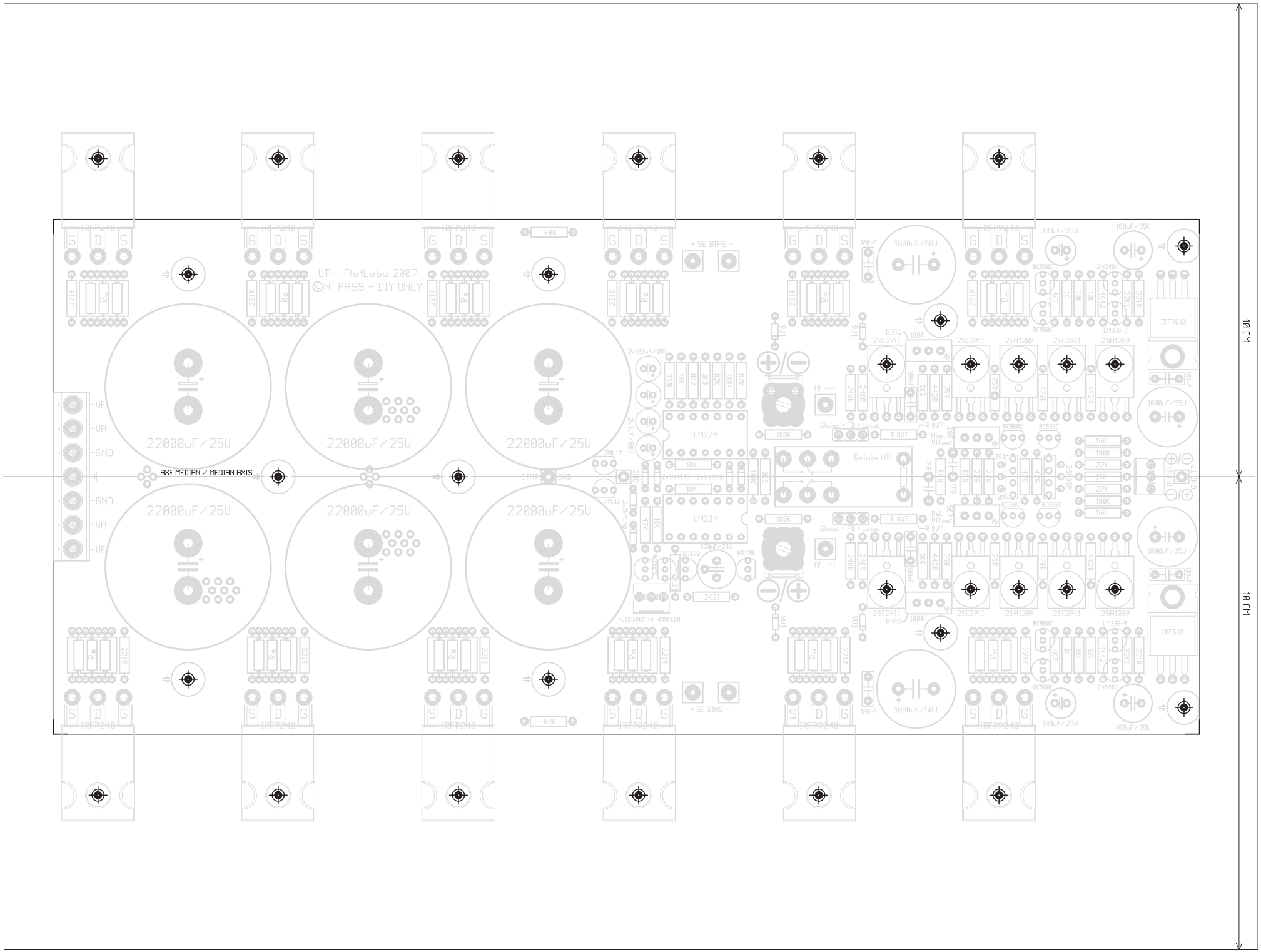
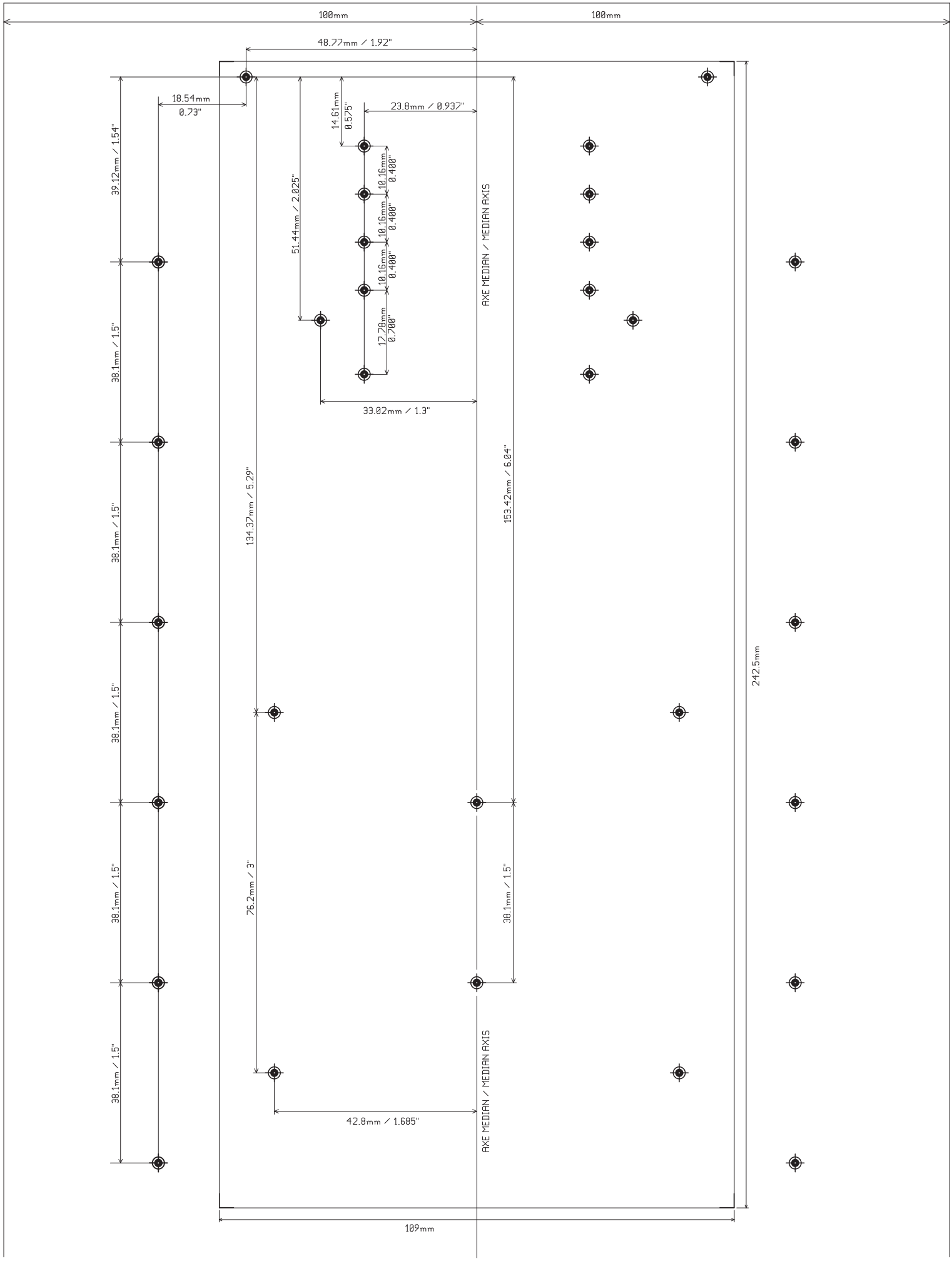
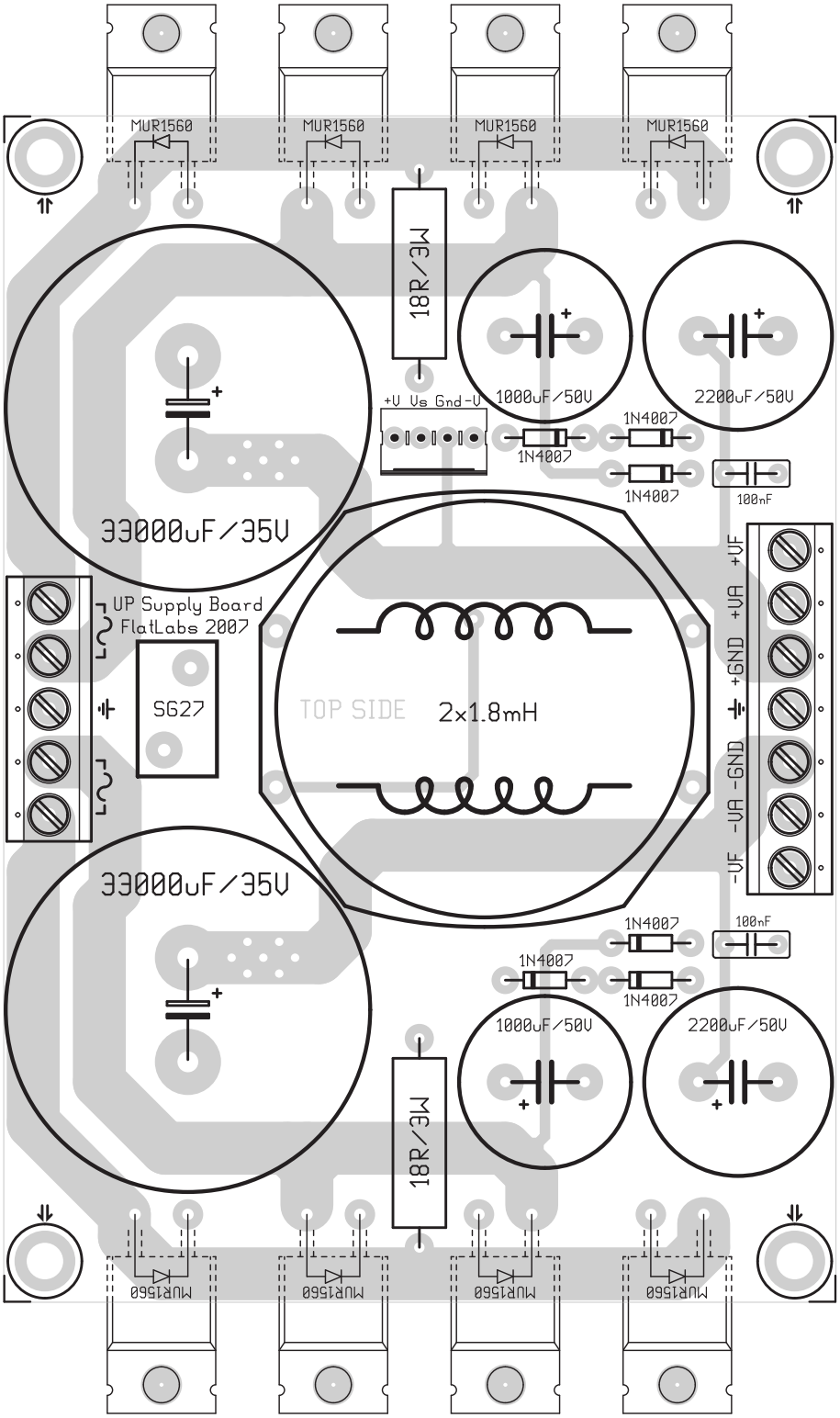
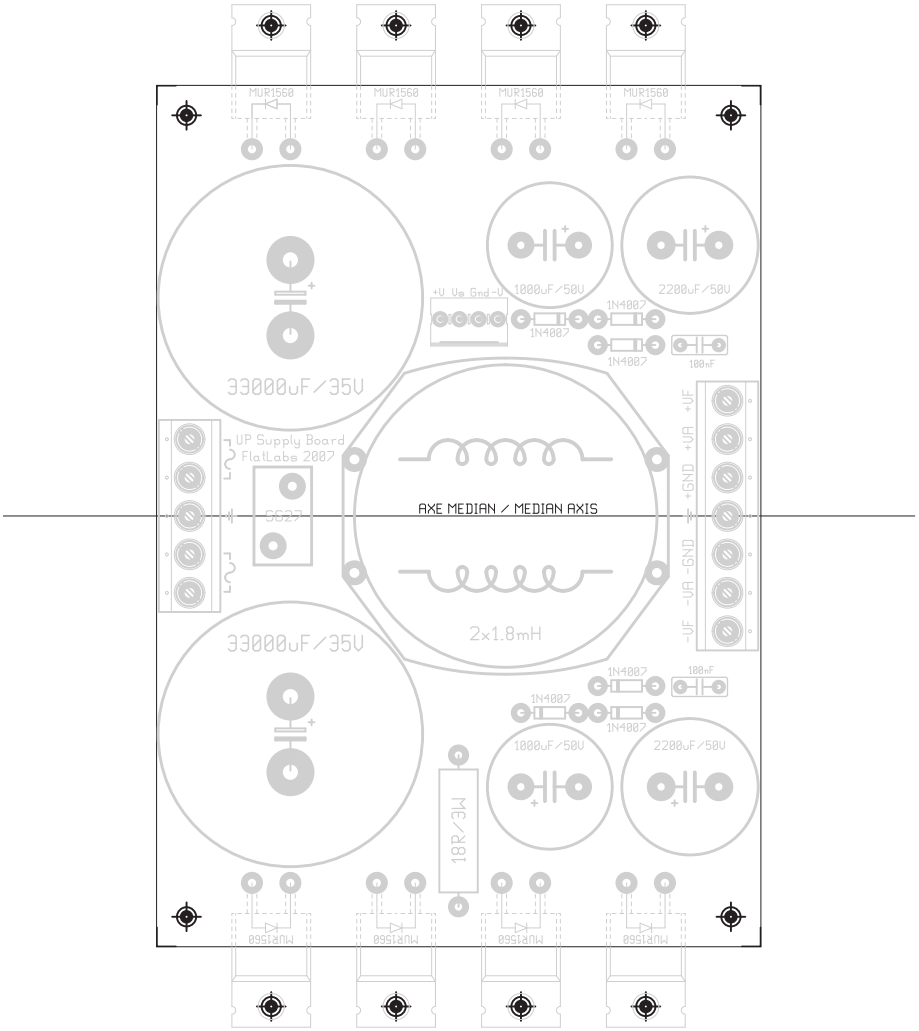

UP - FlatLabs 2007
©N. PASS - DIY ONLY
IRFP240
IRFP9240
IRF9610
IRF610
22000uF/25V
TOP SIDE
+UF
+UA
+GND
-GND
-UA
-UF
STAR
GND
6R8
221R
Rs
+ SE BIAS -
1000uF/50V
100nF
100uF/25V
100uF/35V
1000uF/35V
BC550C
2N5461
LM336-5
2SC2911
2SA1209
2SK389
BIAS
100R
9V1
2x100uF/16V
330K
18K
8K2
3K3
82K
100K
2x1uF/50V
LM324
10K
2x1N4148
42K
BS170
220uF/25V
2K21
-LED WAIT +V -ERR LED
TP +/-
TP -/+
Global < FB > Local
R OUT
Abs. Offset
Rel. Offset
Relais HP
RFB
CFB
22R
47R
470R
442R
75R
240R
5K6
20R
50R
15K
27K
INPUT
GND TP

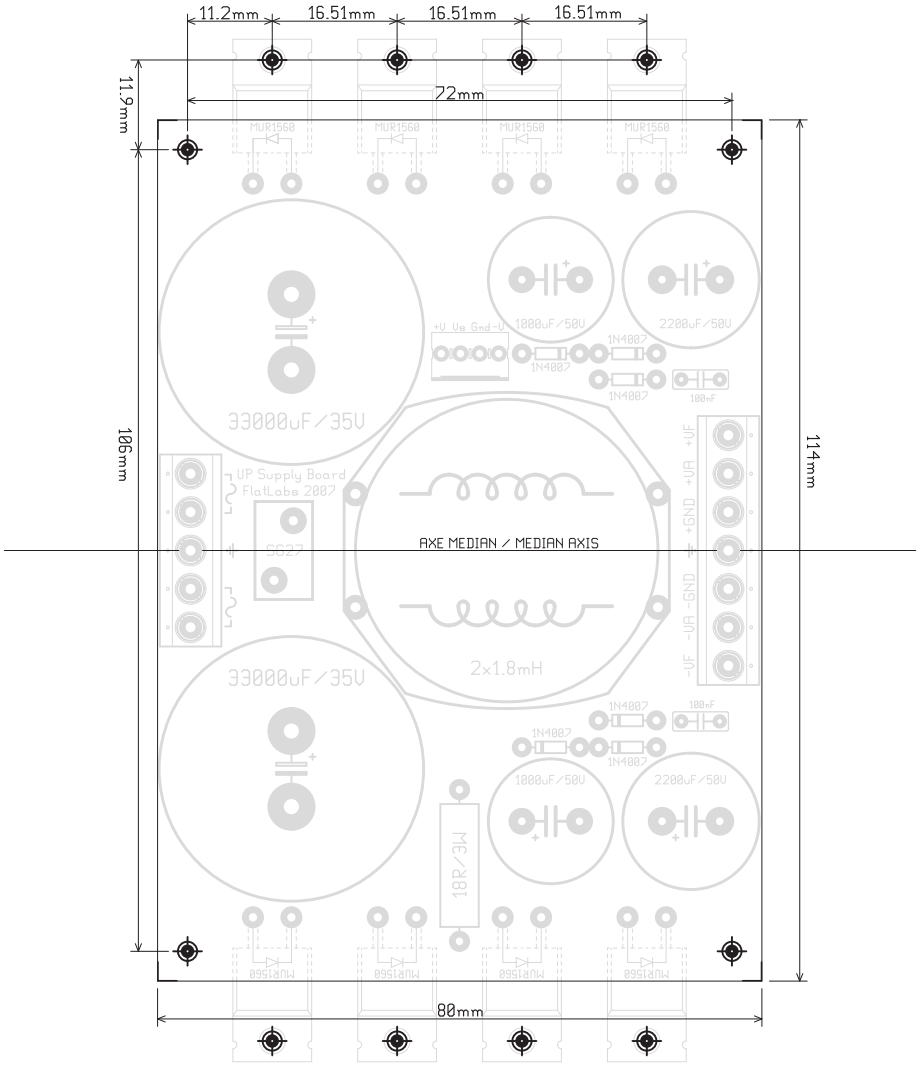

100nF
μ001
100nF
100nF
100nF
100nF
100nF
100nF
100nF
100nF
100nF

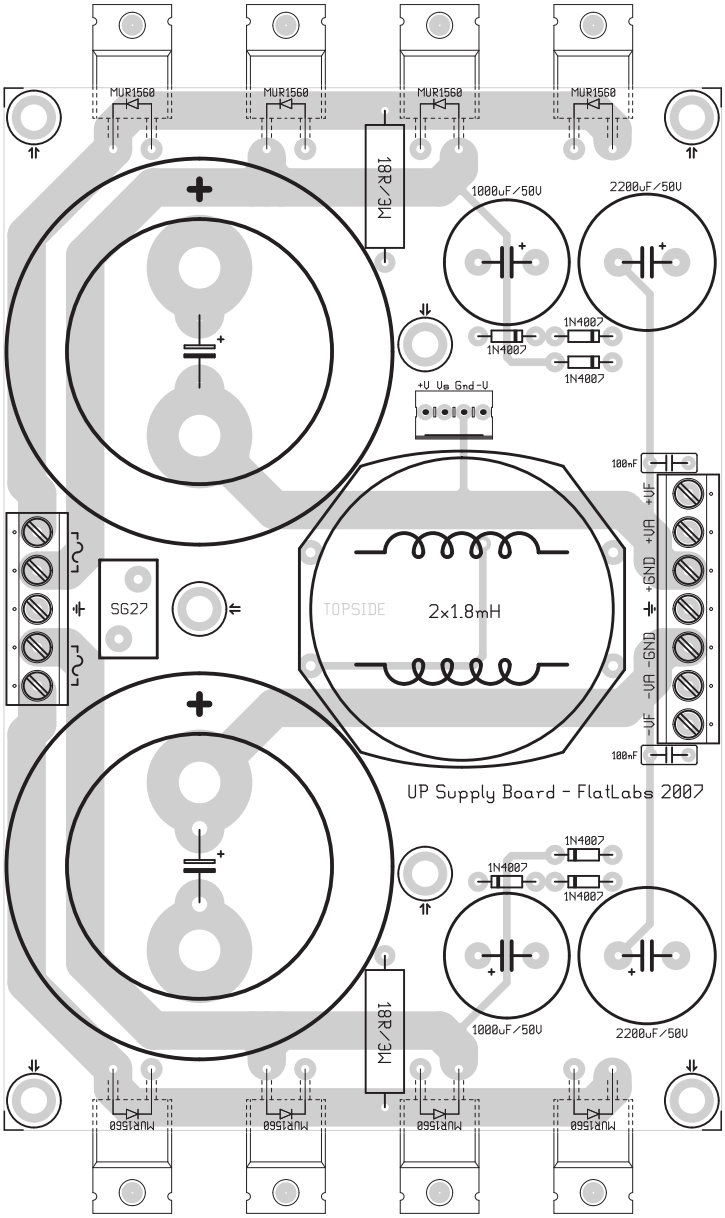

UP - FlatLabs 2007
©N. PASS - DIY ONLY
AXE MEDIAN / MEDIAN AXIS
22000uF/25V
22000uF/25V
22000uF/25V
22000uF/25V
22000uF/25V
22000uF/25V
+VF
+VA
+GND
-GND
-VA
-VF
IRFP240
IRFP9240
IRF9610
IRF610
LM324
LM336-5
2SC2911
2SA1209
2SJ109
2SK389
BC550C
BC560C
2N5461
BS170
2N4148
78L12
79L12
1000uF/50V
1000uF/35V
100uF/25V
100uF/35V
+ SE BIAS -
Relais HP
Global < FB > Local
R OUT
Abs. Offset
Rel. Offset
BIAS
TP +/-
TP -/+
INPUT
GND
-LED WAIT +V -ERR LED
10 CM
10 CM

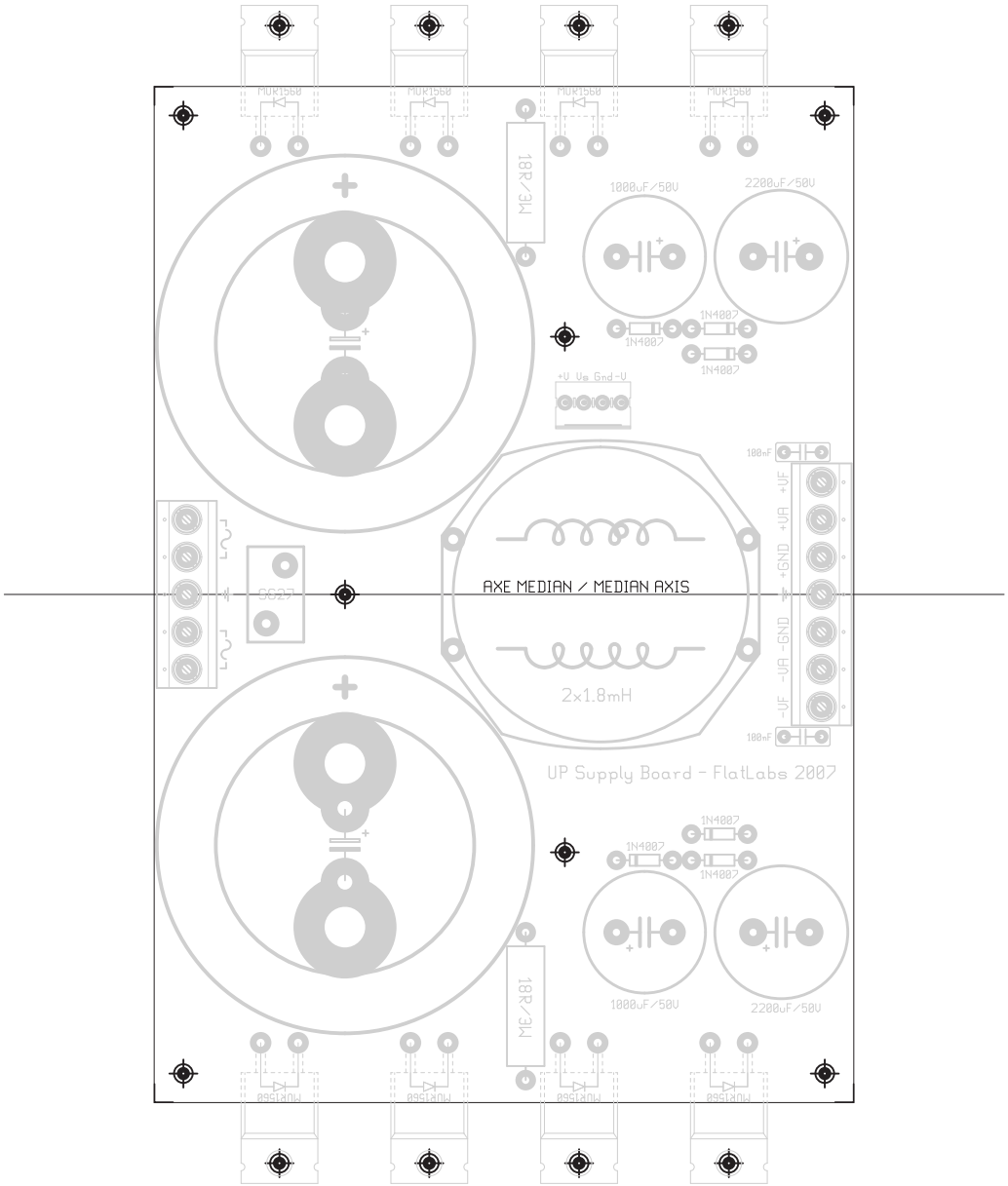

100mm
100mm
48.77mm / 1.92"
18.54mm
0.73"
14.61mm
0.575"
23.8mm / 0.937"
39.12mm / 1.54"
10.16mm
0.400"
51.44mm / 2.025"
10.16mm
0.400"
10.16mm
0.400"
AXE MEDIAN / MEDIAN AXIS
17.78mm
0.700"
38.1mm / 1.5"
33.02mm / 1.3"
38.1mm / 1.5"
134.37mm / 5.29"
153.42mm / 6.04"
38.1mm / 1.5"
242.5mm
38.1mm / 1.5"
76.2mm / 3"
38.1mm / 1.5"
38.1mm / 1.5"
AXE MEDIAN / MEDIAN AXIS
42.8mm / 1.685"
109mm

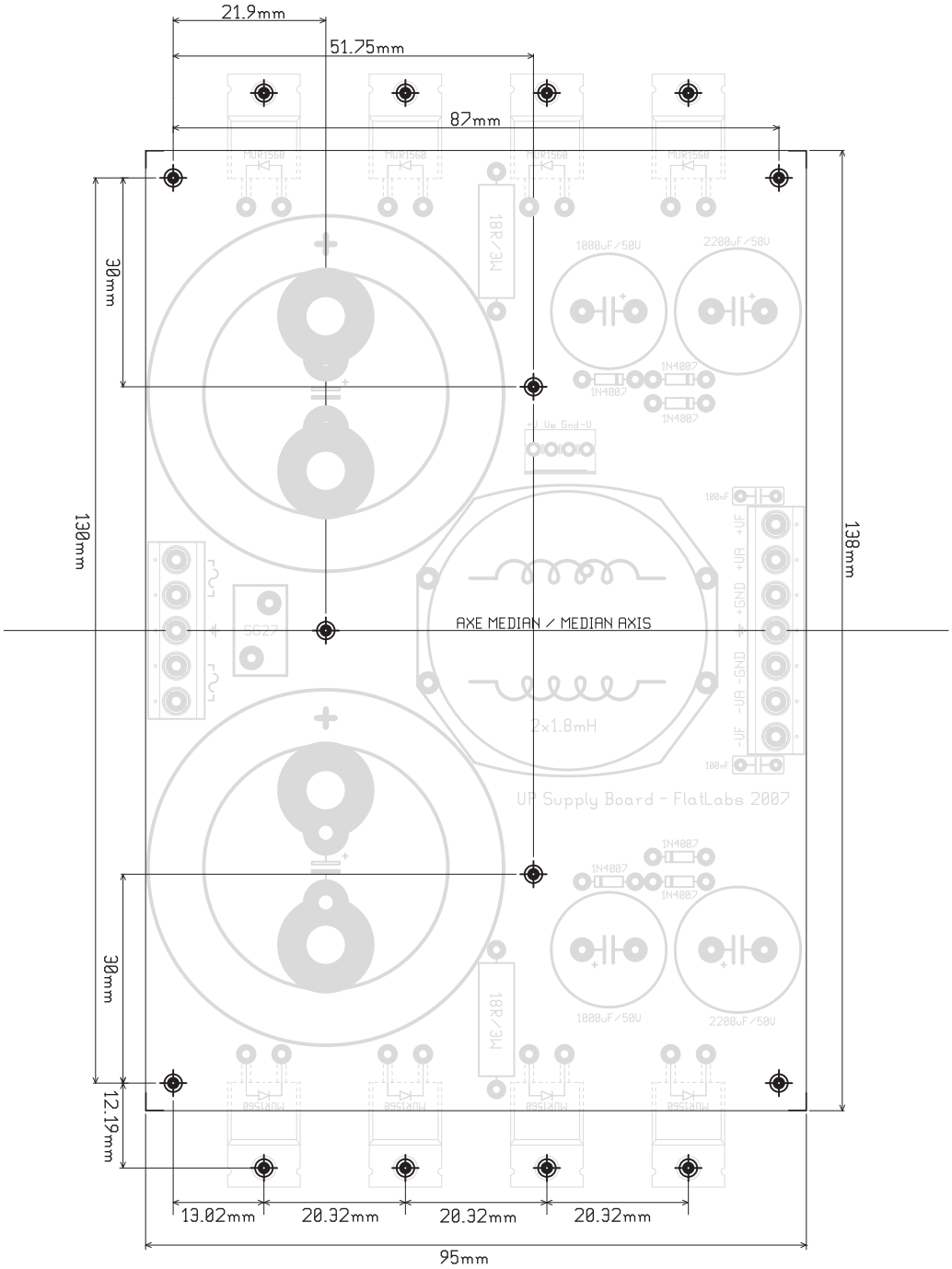

MUR1560
MUR1560
MUR1560
MUR1560
18R/3W
1000uF/50V
2200uF/50V
+V Vs Gnd -V
1N4007
1N4007
1N4007
100nF
33000uF/35V
UP Supply Board
FlatLabs 2007
SG27
TOP SIDE
2x1.8mH
+VF
+VA
+GND
-GND
-VA
-VF
33000uF/35V
1N4007
1N4007
1N4007
100nF
1000uF/50V
2200uF/50V
18R/3W
MUR1560
MUR1560
MUR1560
MUR1560

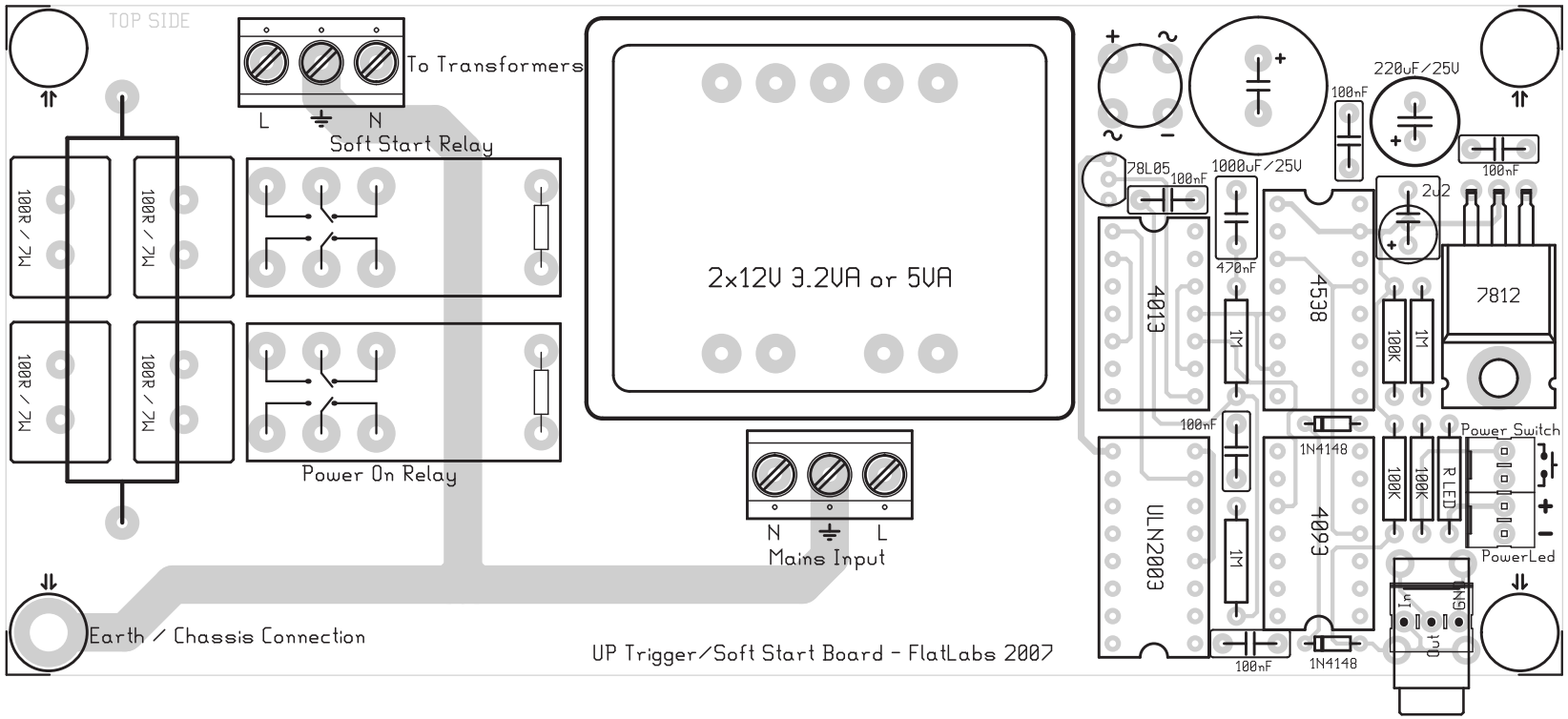

MUR1560
MUR1560
MUR1560
MUR1560
+U Ue Gnd -U
1000uF/50V
2200uF/50V
1N4007
1N4007
1N4007
100nF
33000uF/35V
UP Supply Board
FlatLabs 2007
GG27
AXE MEDIAN / MEDIAN AXIS
+UF
+UA
+GND
-UA
-GND
-UF
2x1.8mH
33000uF/35V
1N4007
1N4007
1N4007
100nF
1000uF/50V
2200uF/50V
18R/3W
MUR1560
MUR1560
MUR1560
MUR1560

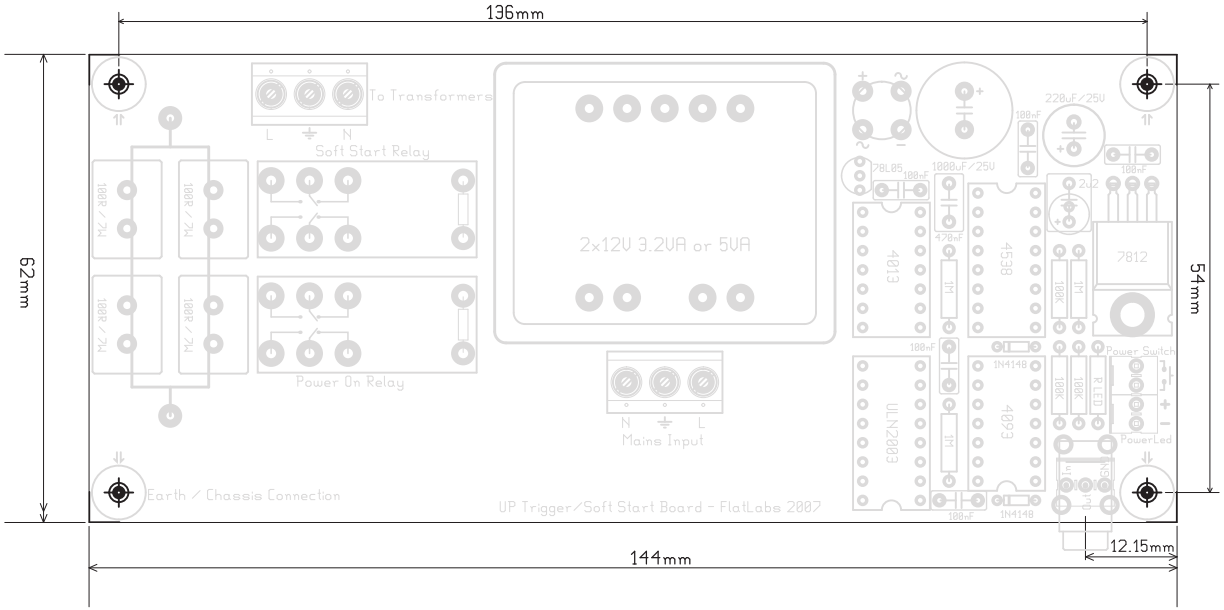

11.2mm
16.51mm
16.51mm
16.51mm
11.9mm
72mm
MUR1560
MUR1560
MUR1560
MUR1560
33000uF/35V
+U Ue Gnd-U
1000uF/50V
2200uF/50V
1N4007
1N4007
1N4007
100nF
106mm
114mm
UP Supply Board
FlatLabs 2007
SB22
AXE MEDIAN / MEDIAN AXIS
+UF
+UA
+GND
-GND
-UA
-UF
2x1.8mH
33000uF/35V
1N4007
100nF
1N4007
1N4007
1000uF/50V
2200uF/50V
18R/3W
MUR1560
MUR1560
MUR1560
MUR1560
80mm

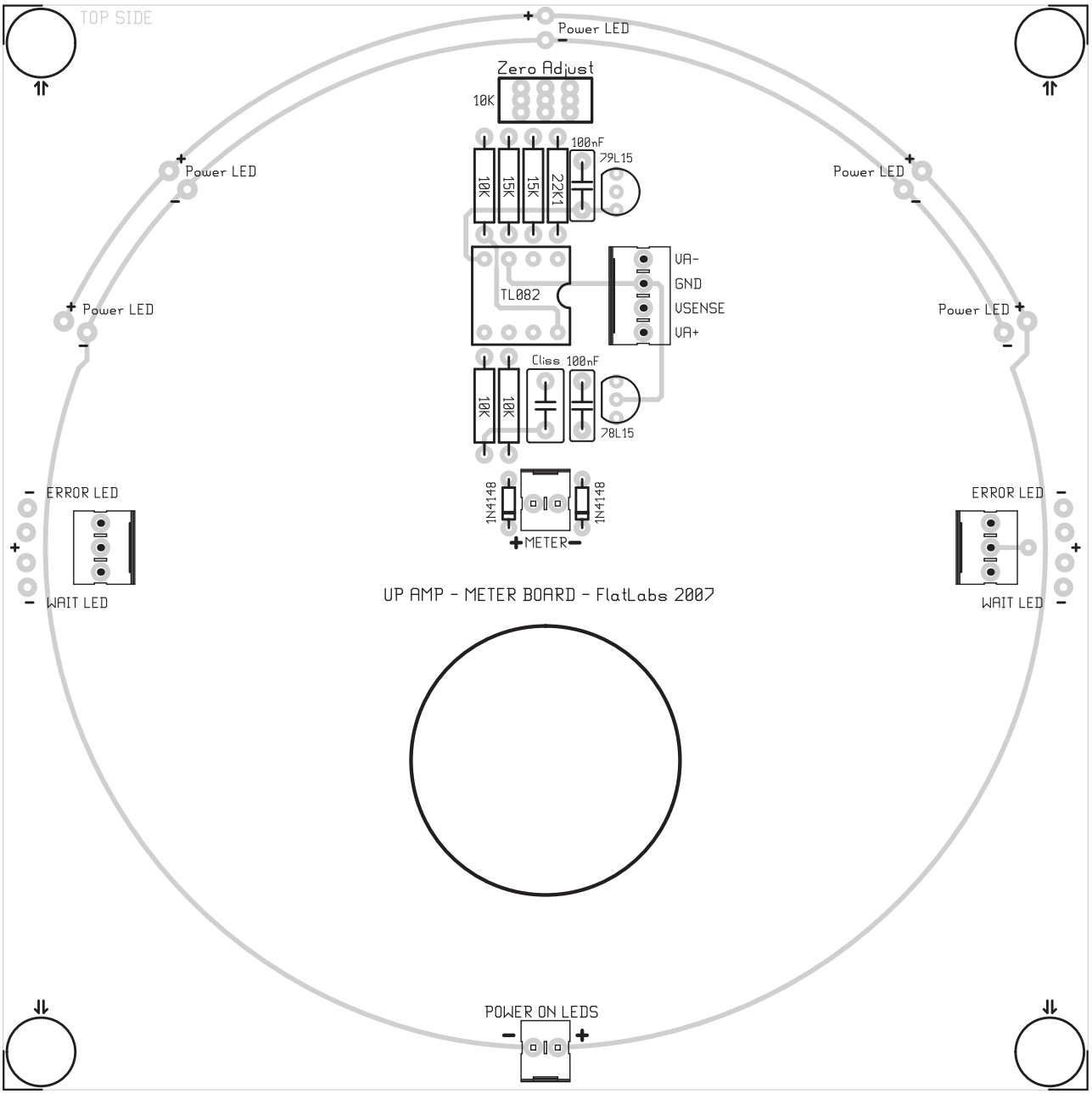

MUR1560
MUR1560
MUR1560
MUR1560
18R/3W
1000uF/50V
2200uF/50V
1N4007
1N4007
1N4007
+V Ug Gnd-V
100nF
+VF
+VA
+GND
-GND
-VA
-VF
100nF
SG27
TOPSIDE
2x1.8mH
UP Supply Board - FlatLabs 2007
1N4007
1N4007
1N4007
1000uF/50V
2200uF/50V
18R/3W
MUR1560
MUR1560
MUR1560
MUR1560

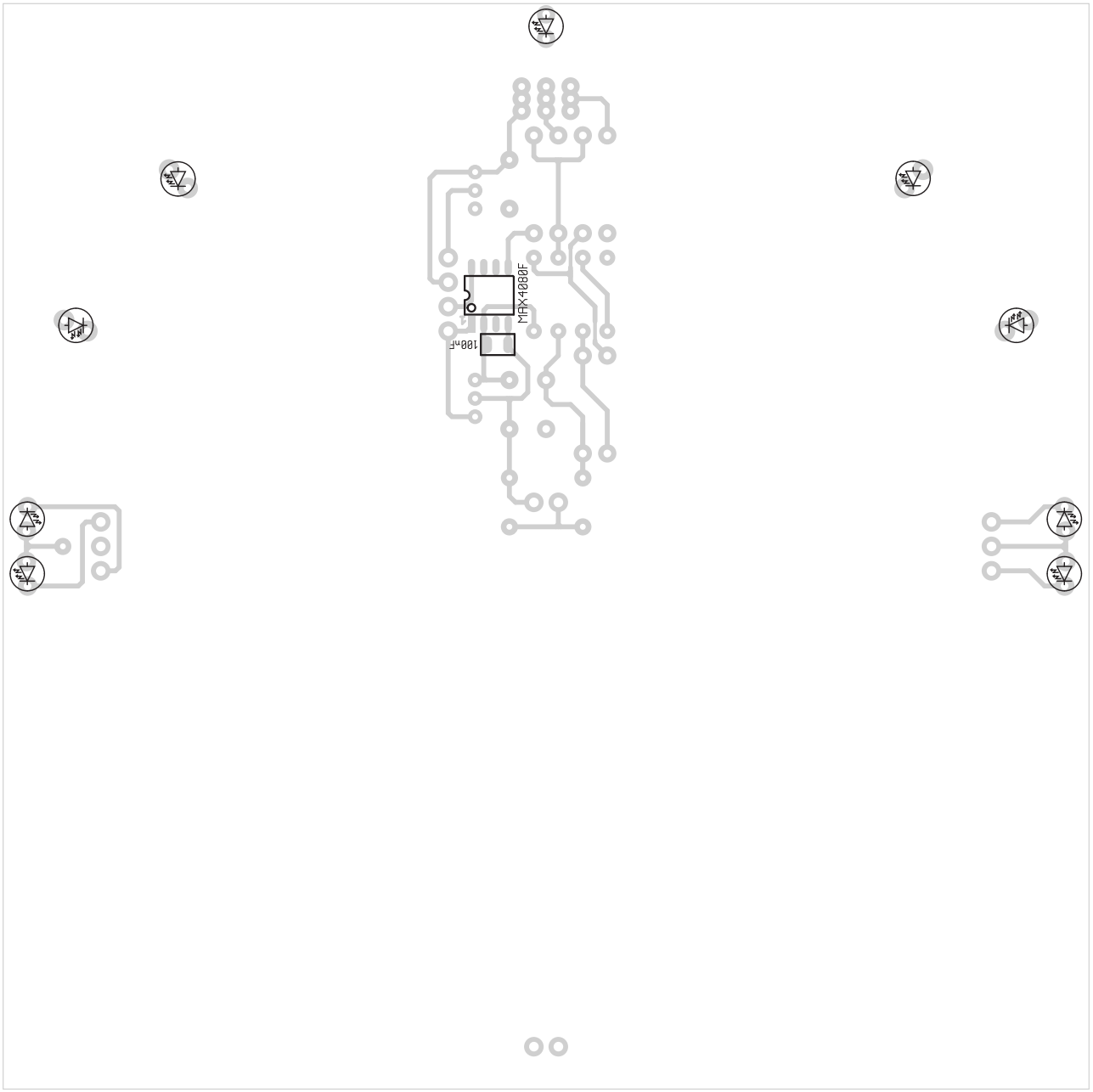

MUR1560
18R/3W
1000uF/50V
2200uF/50V
1N4007
+U Ug Gnd -U
100nF
+UF
+UA
+GND
-GND
-UA
-UF
SG27
AXE MEDIAN / MEDIAN AXIS
2x1.8mH
UP Supply Board - FlatLabs 2007

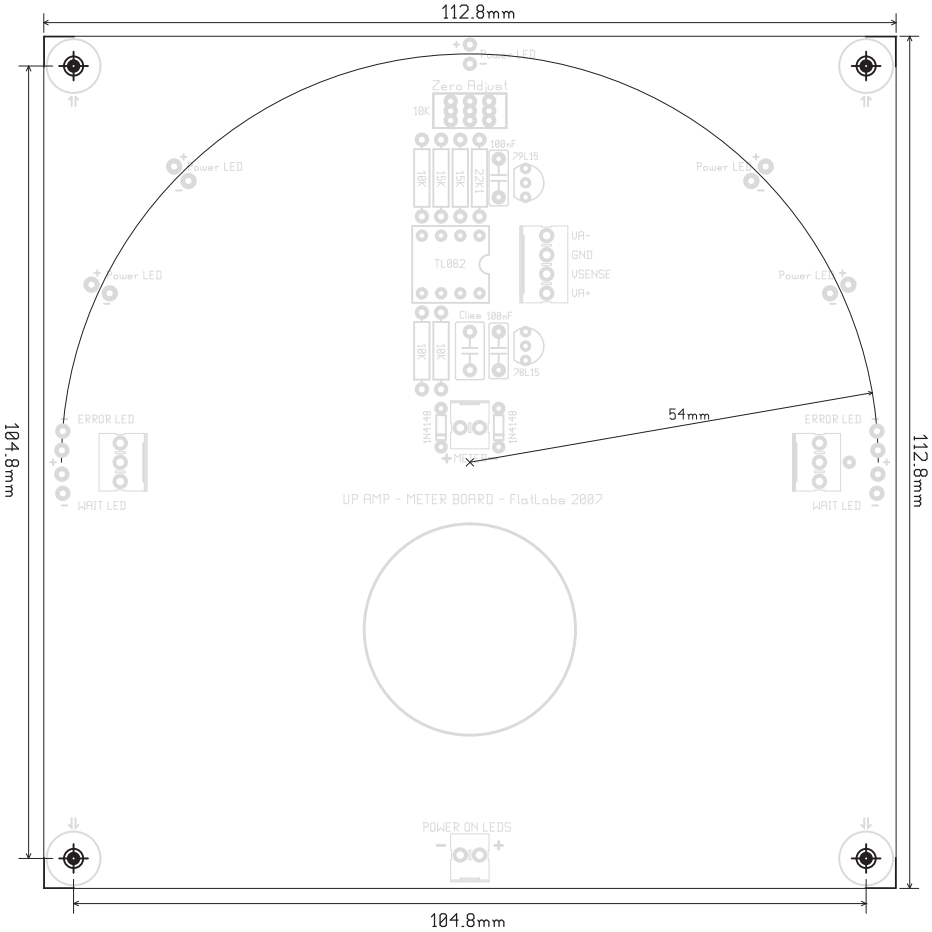

21.9mm
51.75mm
87mm
30mm
130mm
138mm
30mm
12.19mm
13.02mm
20.32mm
20.32mm
20.32mm
95mm
AXE MEDIAN / MEDIAN AXIS
2×1.8mH
UP Supply Board - FlatLabs 2007
1000uF/50V
2200uF/50V
1N4007
18R/3W
SG27
100nF
+UF
+UA
+GND
-UF
-UA
-GND


TOP SIDE
To Transformers
L
N
Soft Start Relay
100R / 7W
100R / 7W
100R / 7W
100R / 7W
Power On Relay
2x12V 3.2VA or 5VA
N
L
Mains Input
Earth / Chassis Connection
UP Trigger/Soft Start Board - FlatLabs 2007
78L05
100nF
1000uF/25V
470nF
1M
4013
100nF
1M
ULN2003
4538
1N4148
4093
1N4148
100nF
100nF
220uF/25V
2u2
7812
100K
1M
100K
100K
R LED
Power Switch
PowerLed
GND
10u
In


136mm
62mm
54mm
144mm
12.15mm
To Transformers
L
N
Soft Start Relay
Power On Relay
1N4001
1N4001
1N4001
1N4001
2x12V 3.2VA or 5VA
N
L
Mains Input
Earth / Chassis Connection
UP Trigger/Soft Start Board - FlatLabs 2007
78L05
100nF
1000uF/25V
470nF
4013
4538
1M
100K
220uF/25V
2u2
7812
Power Switch
ULN2003
1N4148
4093
R LED
PowerLed
Out
GND
In


TOP SIDE
Power LED
Zero Adjust
10K
100nF
79L15
10K
15K
15K
22K1
Power LED
Power LED
TL082
VA-
GND
VSENSE
VA+
Power LED
Power LED
Cliss 100nF
10K
10K
78L15
ERROR LED
1N4148
1N4148
METER
ERROR LED
WAIT LED
UP AMP - METER BOARD - FlatLabs 2007
WAIT LED
POWER ON LEDS


MAX4080F
100nF


112.8mm
104.8mm
112.8mm
104.8mm
54mm
Power LED
Zero Adjust
10K
100nF
79L15
10K
15K
15K
22K1
TL082
VA-
GND
VSENSE
VA+
Power LED
Power LED
Power LED
Cbee 100nF
10K
10K
78L15
1N4148
1N4148
ERROR LED
ERROR LED
WAIT LED
WAIT LED
UP AMP - METER BOARD - FlatLabs 2007
POWER ON LEDS