input buffer

J1
S
SN
R
RN
T
TN
GND

FB1
FerriteBead

GND

R2
10K

R4
220K

+C

C3
1n

1N914
D1
D2

SW2A
3
1
2

GND

R1
1M

C1
100p

R3
1K8

C2
1µ

G
7

U1A
6N2P

GND   GND   GND   GND

switchable active filter

+C

R8
220K

C5
220n

R10
1M

R6
100k

R9
470K

SW2B
4
5
6

1N914
D3
D4

1

G
2

U1B
6N2P

R5
1M

C35
1n

R7
1K8

C4
1µ

C6
470p

GND   GND GND GND GND

gain stage 1

+B

R22
100K

C9
2n2

SW5A
3
1
2

C24
220n

R20
100K

R19
1M

G
7

U2A
6N2P

R21
3K3

C10
1µ

GND   GND   GND

1N914
D5
D6

switchable cold clipper

+B

R26
100K

C12
2n2

SW5B
4
5
6

C26
22n

R23
470K

G
2

U2B
6N2P

R24
1M

R25
20K

GND   GND

last gain stages

1N914
D9
D10

+A

R30
100K

C15
1n

+A

R34
100K

C18
µ1

2

R27
680K

R31
820K

R28
330K

C13
220p

G
7

U3A
6N2P

R32
270K

C16
220p

G
2

U3B
6N2P

R29
2K7

C14
10µ

R33
1K8

C17
10µ

GND   GND   GND   GND   GND   GND   GND   GND

TONE_BLOCK

File: tone.kicad_sch

OUT

J3
IN
T
RN
R
SN
S

GND

PSU

File: untitled.kicad_sch

Out of board

+A

+B

+C

+HT

T2
Transformer_1P_3S

J2

F1
T500ma

L

PE

N

GNDPWR

GND

D13

D11

D14

D12

C36
100u

C27
100u

R46
150

R45
1k

R39
10k

R40
10k

C30
100u

C31
100u

GND

GND

GND

GND

GND

R42
100

R43
100

GND

GND

U2C
6N2P

U3C
6N2P

GND

GND

F1

F2

F1

F2

D15

D17

D16

D18

GND

C28
1000u

GND

U5
LM7805_TO220

VI

GND

VO

D7
1N4007

D8
1N4007

GND

C29
4700u

GND

U1C
6N2P

GND

GND

2

C32
100p

R44
100k

RT1
B250k
2

C33
220n

RB1
B250k
2

VOL1
1M
2

OUT

C34
10n
2

RM1
B25k

GND

GND