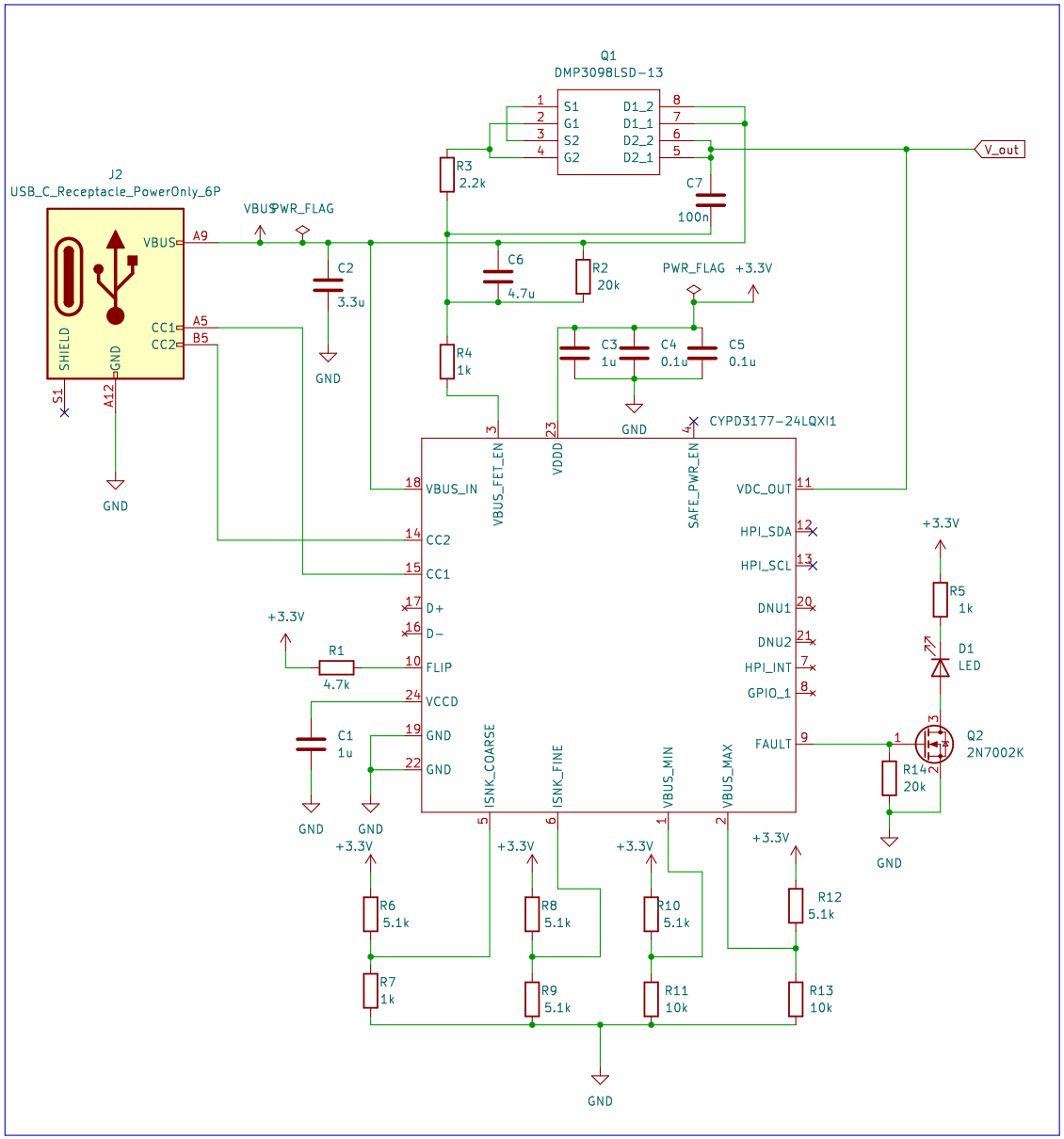
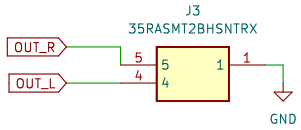
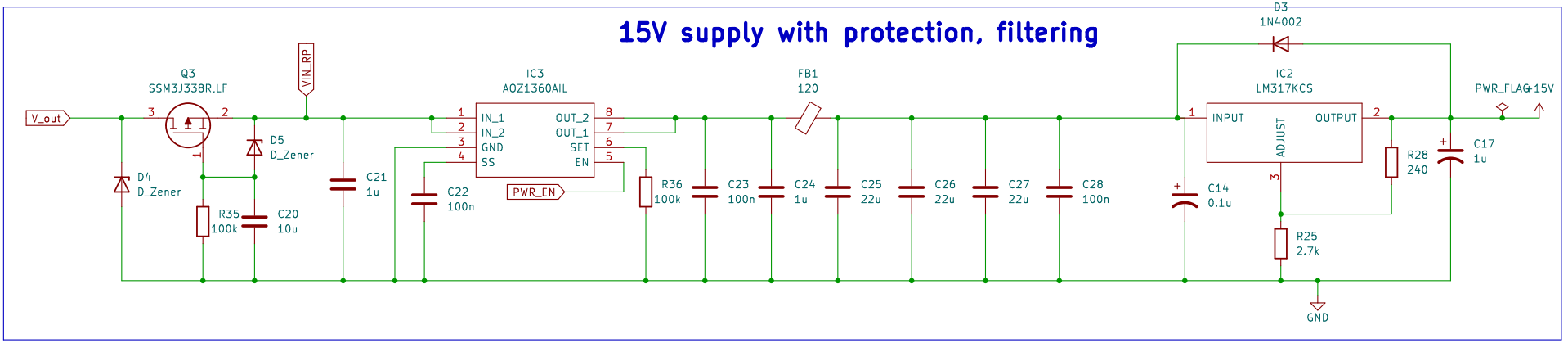
USB-C Power

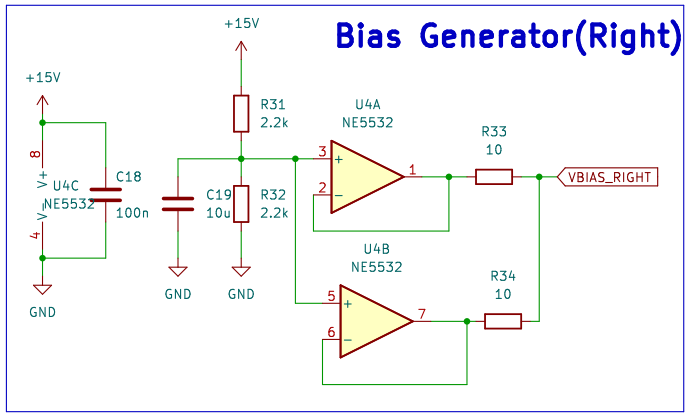


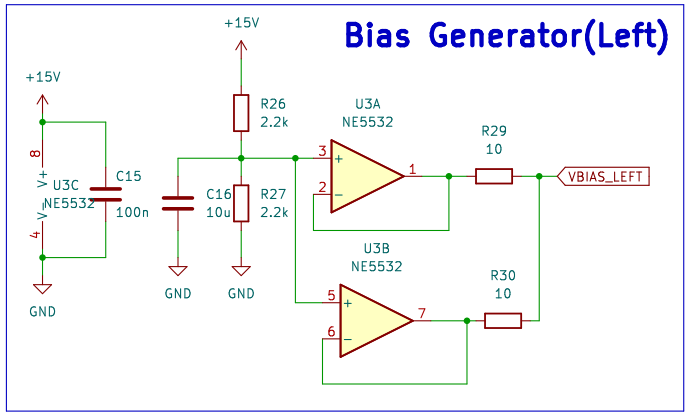


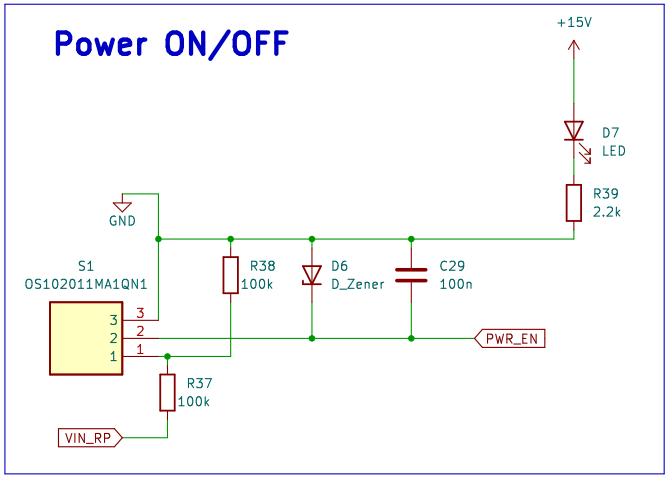
Headphone Output

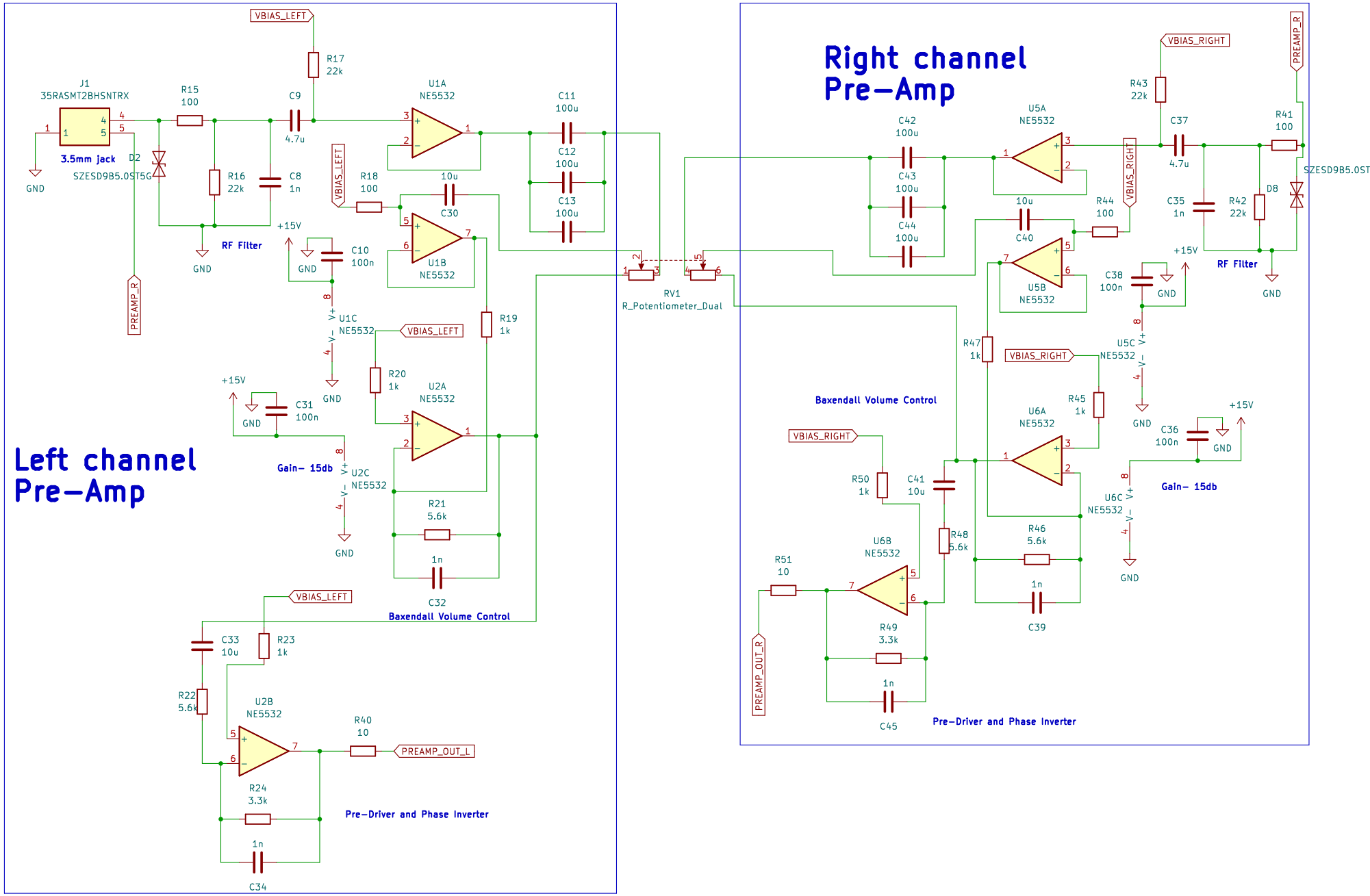
Power Regulator

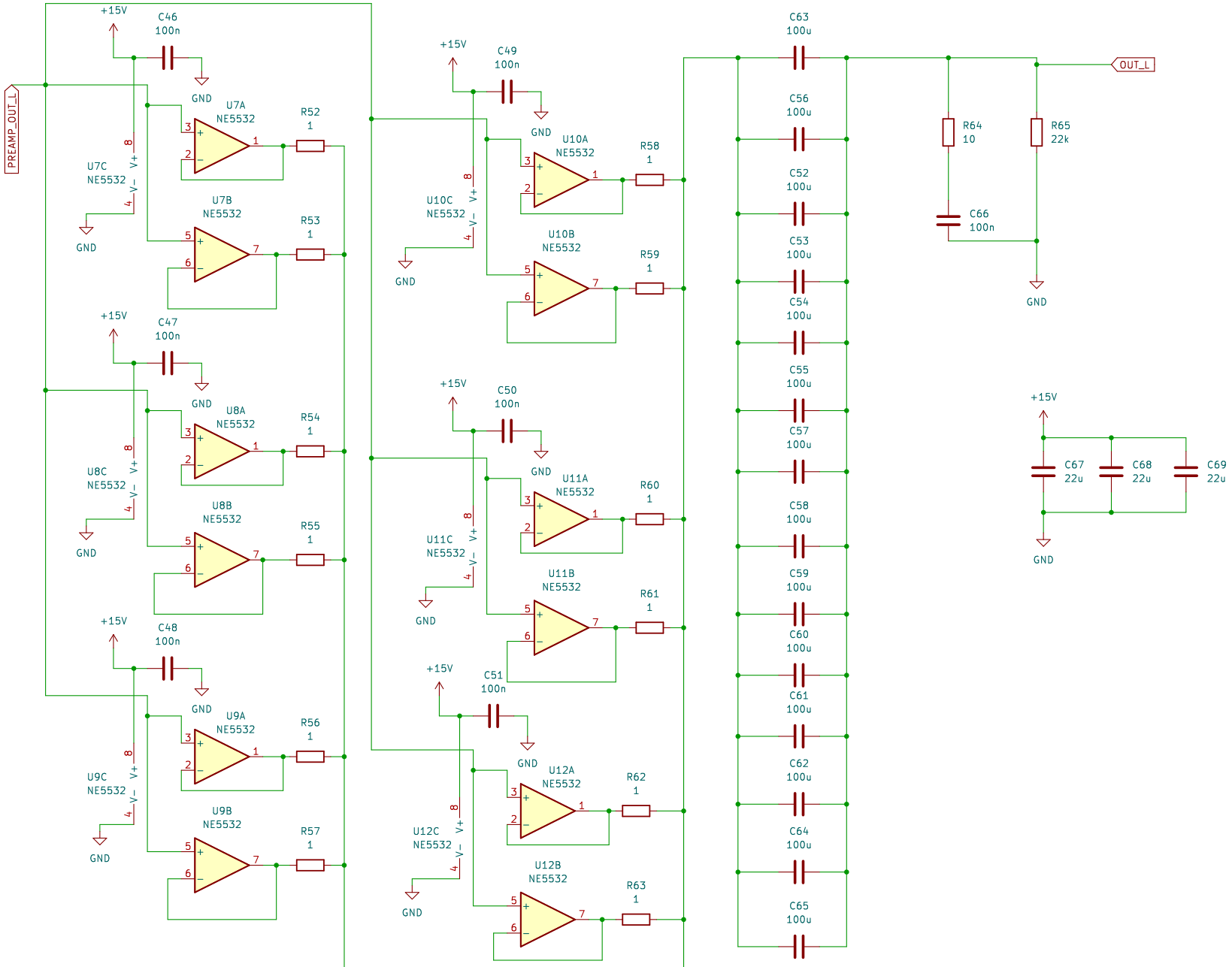


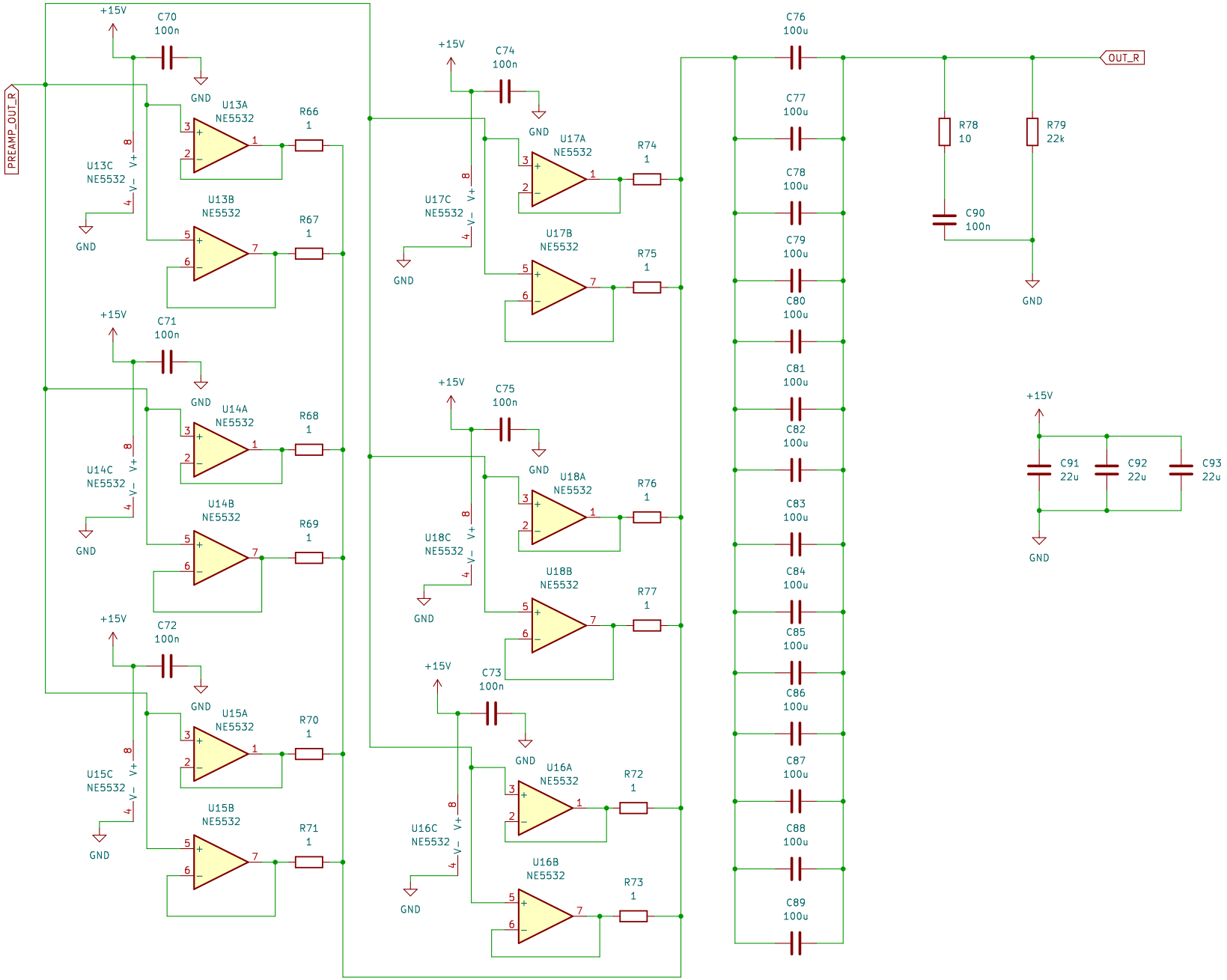







Left channel
Pre–Amp
Right channel
Pre–Amp
VBIAS_LEFT
VBIAS_RIGHT
PREAMP_R
PREAMP_OUT_L
PREAMP_OUT_R
J1
35RASMT2BHSNTRX
3.5mm jack
D2
SZESD9B5.0ST5G
R15
100
R16
22k
R17
22k
C8
1n
C9
4.7u
RF Filter
C10
100n
U1A
NE5532
U1B
NE5532
U1C
NE5532
R18
100
C30
10u
C11
100u
C12
100u
C13
100u
R19
1k
RV1
R_Potentiometer_Dual
R20
1k
U2A
NE5532
U2B
NE5532
U2C
NE5532
C31
100n
Gain– 15db
R21
5.6k
C32
1n
Baxendall Volume Control
C33
10u
R23
1k
R22
5.6k
R24
3.3k
C34
1n
R40
10
Pre–Driver and Phase Inverter
R43
22k
C37
4.7u
R41
100
U5A
NE5532
C42
100u
C43
100u
C44
100u
C40
10u
R44
100
U5B
NE5532
C35
1n
R42
22k
D8
SZESD9B5.0ST
C38
100n
U5C
NE5532
R47
1k
R45
1k
U6A
NE5532
C36
100n
Gain– 15db
U6C
NE5532
R50
1k
C41
10u
R48
5.6k
R46
5.6k
C39
1n
U6B
NE5532
R51
10
R49
3.3k
C45
1n
Pre–Driver and Phase Inverter
GND
+15V


PREAMP_OUT_L
+15V
C46
100n
GND
U7A
NE5532
R52
1
U7C
NE5532
V+
V−
8
4
U7B
NE5532
R53
1
5
6
7
C47
100n
U8A
NE5532
R54
1
U8C
NE5532
U8B
NE5532
R55
1
C48
100n
U9A
NE5532
R56
1
U9C
NE5532
U9B
NE5532
R57
1
C49
100n
U10A
NE5532
R58
1
U10C
NE5532
U10B
NE5532
R59
1
C50
100n
U11A
NE5532
R60
1
U11C
NE5532
U11B
NE5532
R61
1
C51
100n
U12A
NE5532
R62
1
U12C
NE5532
U12B
NE5532
R63
1
C63
100u
C56
100u
C52
100u
C53
100u
C54
100u
C55
100u
C57
100u
C58
100u
C59
100u
C60
100u
C61
100u
C62
100u
C64
100u
C65
100u
R64
10
C66
100n
R65
22k
OUT_L
C67
22u
C68
22u
C69
22u


PREAMP_OUT_R
+15V
C70
100n
GND
U13A
NE5532
R66
1
U13C
NE5532
U13B
NE5532
R67
1
C71
100n
U14A
NE5532
R68
1
U14C
NE5532
U14B
NE5532
R69
1
C72
100n
U15A
NE5532
R70
1
U15C
NE5532
U15B
NE5532
R71
1
C74
100n
U17A
NE5532
R74
1
U17C
NE5532
U17B
NE5532
R75
1
C75
100n
U18A
NE5532
R76
1
U18C
NE5532
U18B
NE5532
R77
1
C73
100n
U16A
NE5532
R72
1
U16C
NE5532
U16B
NE5532
R73
1
C76
100u
C77
100u
C78
100u
C79
100u
C80
100u
C81
100u
C82
100u
C83
100u
C84
100u
C85
100u
C86
100u
C87
100u
C88
100u
C89
100u
R78
10
C90
100n
R79
22k
OUT_R
C91
22u
C92
22u
C93
22u