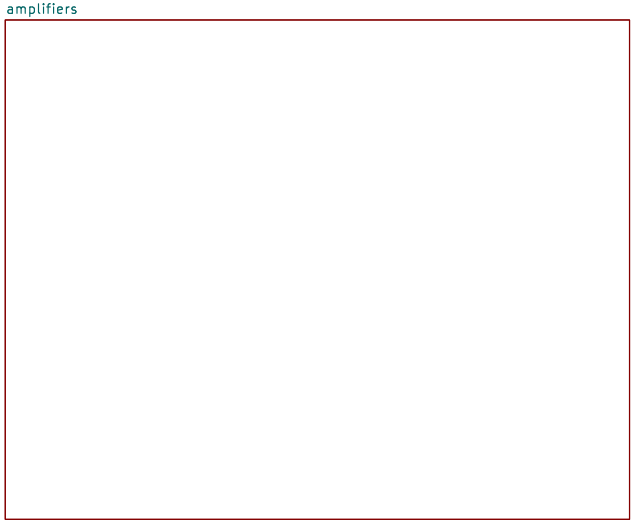
amplifiers



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simulation

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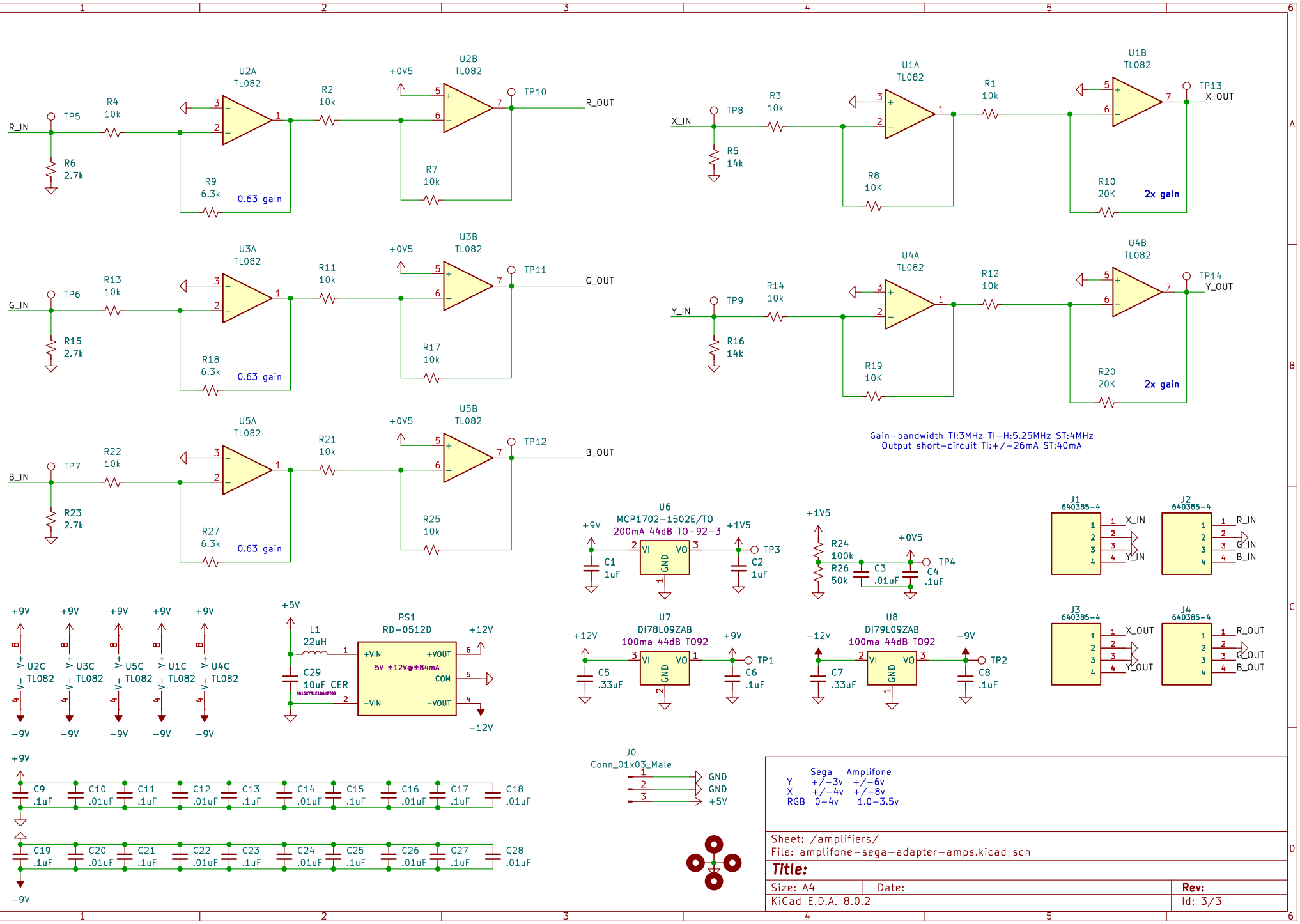
U2A
TL082
U2B
TL082
+0V5
R_IN
TP5
R4
10k
R6
2.7k
R9
6.3k
0.63 gain
R2
10k
R7
10k
TP10
R_OUT
U1A
TL082
U1B
TL082
X_IN
TP8
R3
10k
R5
14k
R8
10K
R1
10k
R10
20K
2x gain
TP13
X_OUT
U3A
TL082
U3B
TL082
G_IN
TP6
R13
10k
R15
2.7k
R18
6.3k
0.63 gain
R11
10k
R17
10k
TP11
G_OUT
U4A
TL082
U4B
TL082
Y_IN
TP9
R14
10k
R16
14k
R19
10K
R12
10k
R20
20K
2x gain
TP14
Y_OUT
U5A
TL082
U5B
TL082
B_IN
TP7
R22
10k
R23
2.7k
R27
6.3k
0.63 gain
R21
10k
R25
10k
TP12
B_OUT
Gain-bandwidth TI:3MHz TI-H:5.25MHz ST:4MHz
Output short-circuit TI:+/-26mA ST:40mA
U6
MCP1702-1502E/TO
200mA 44dB TO-92-3
+9V
+1V5
C1
1uF
C2
1uF
TP3
+1V5
R24
100k
R26
50k
C3
.01uF
C4
.1uF
+0V5
TP4
J1
640385-4
J2
640385-4
X_IN
Y_IN
R_IN
G_IN
B_IN
U2C
U3C
U5C
U1C
U4C
TL082
+9V
-9V
+5V
L1
22uH
C29
10uF CER
PS1
RD-0512D
+VIN
-VIN
+VOUT
-VOUT
COM
5V ±12V@±84mA
+12V
-12V
U7
DI78L09ZAB
100ma 44dB TO92
+12V
+9V
C5
.33uF
C6
.1uF
TP1
U8
DI79L09ZAB
100ma 44dB TO92
-12V
-9V
C7
.33uF
C8
.1uF
TP2
J3
640385-4
J4
640385-4
X_OUT
Y_OUT
R_OUT
G_OUT
B_OUT
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C26
C27
C28
.1uF
.01uF
J0
Conn_01x03_Male
GND
GND
+5V
Sega Amplifone
Y +/-3v +/-6v
X +/-4v +/-8v
RGB 0-4v 1.0-3.5v
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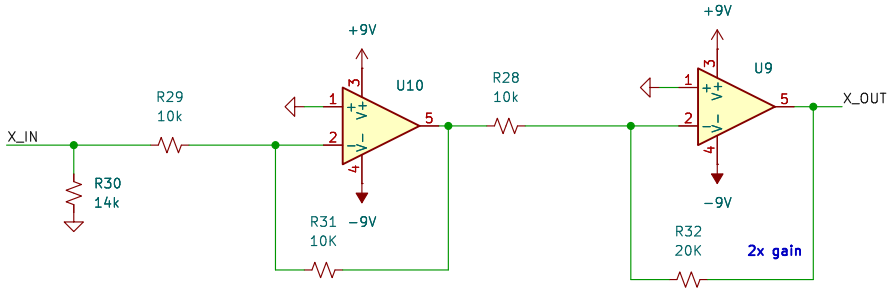

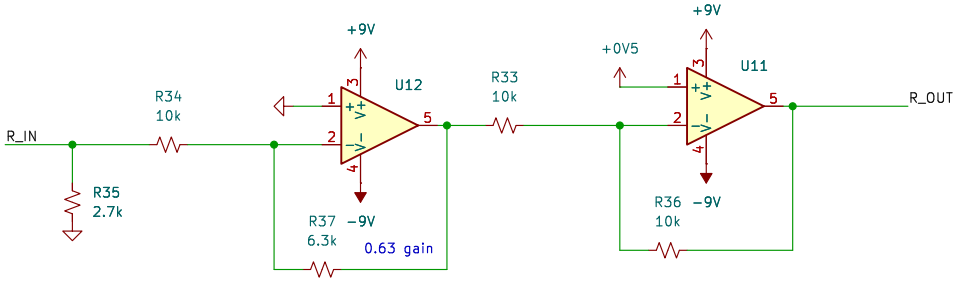

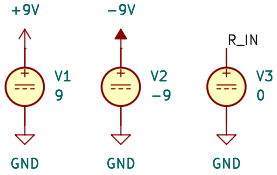

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