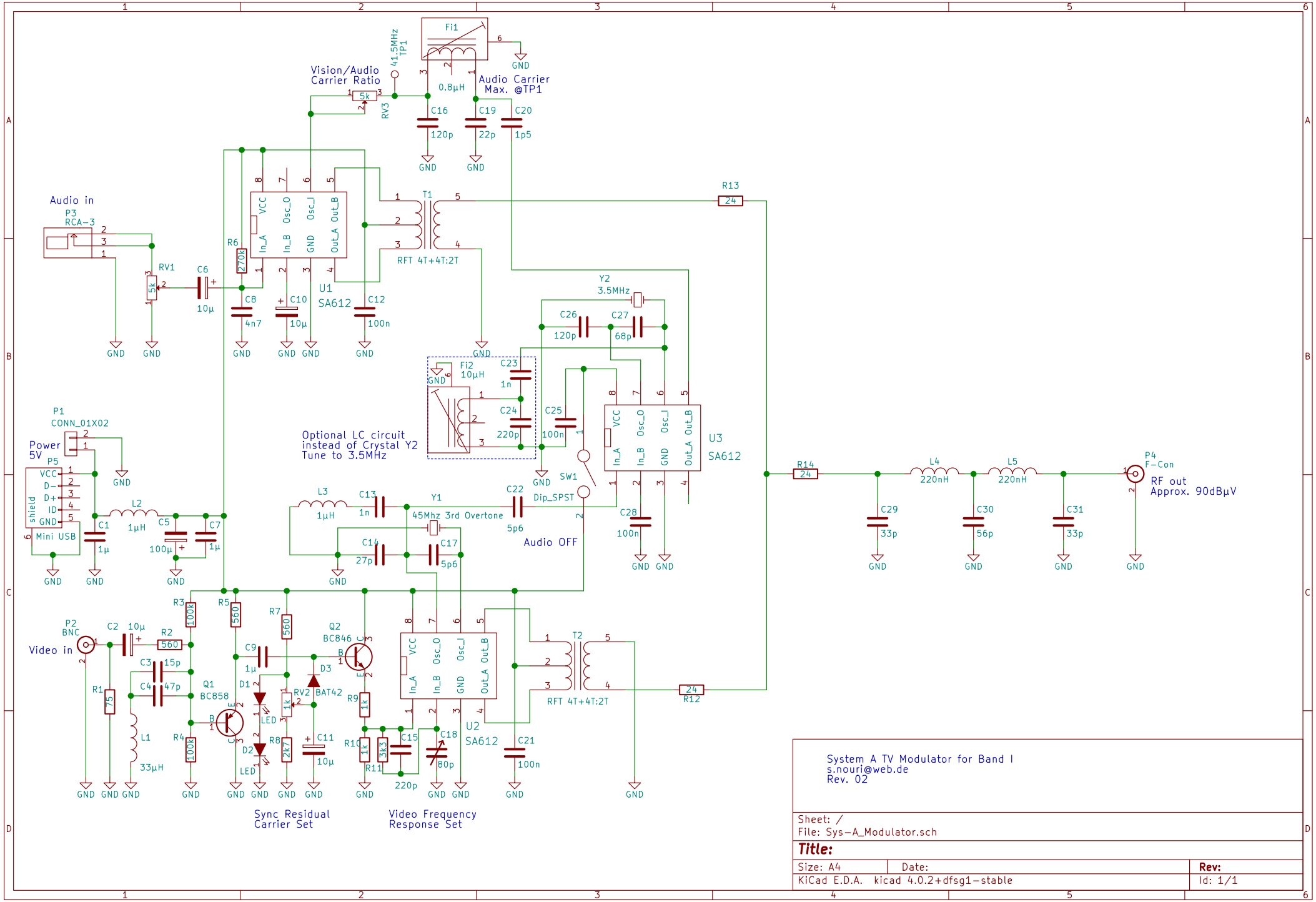
Fi1
41.5MHz
TP1
Vision/Audio
Carrier Ratio
5k
RV3
0.8µH
Audio Carrier
Max. @TP1
C16
120p
C19
22p
C20
1p5
GND
Audio in
P3
RCA-3
RV1
5k
C6
10µ
R6
270K
C8
4n7
C10
10µ
C12
100n
U1
SA612
VCC
Osc_O
Osc_I
Out_B
In_A
In_B
GND
Out_A
T1
RFT 4T+4T:2T
R13
24
Y2
3.5MHz
C26
120p
C27
68p
Fi2
10µH
C23
1n
C24
220p
C25
100n
U3
SA612
Optional LC circuit
instead of Crystal Y2
Tune to 3.5MHz
SW1
Dip_SPST
P1
CONN_01X02
Power
5V
P5
shield
VCC
D-
D+
ID
GND
Mini USB
L2
1µH
C1
1µ
C5
100µ
C7
1µ
L3
1µH
C13
1n
Y1
45Mhz 3rd Overtone
C22
5p6
C14
27p
C17
5p6
C28
100n
Audio OFF
R14
24
L4
220nH
L5
220nH
C29
33p
C30
56p
C31
33p
P4
F-Con
RF out
Approx. 90dBµV
P2
BNC
Video in
C2
10µ
R2
560
R3
100k
R5
560
R7
560
C3
15p
C4
47p
R1
75
L1
33µH
Q1
BC858
R4
100k
C9
1µ
D1
LED
D2
LED
RV2
1k
R8
2k7
C11
10µ
Q2
BC846
D3
BAT42
R9
1k
R10
1k
R11
3k3
C15
220p
C18
80p
U2
SA612
T2
RFT 4T+4T:2T
C21
100n
R12
24
Sync Residual
Carrier Set
Video Frequency
Response Set
System A TV Modulator for Band I
s.nouri@web.de
Rev. 02
Sheet: /
File: Sys-A_Modulator.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 4.0.2+dfsg1-stable
Id: 1/1