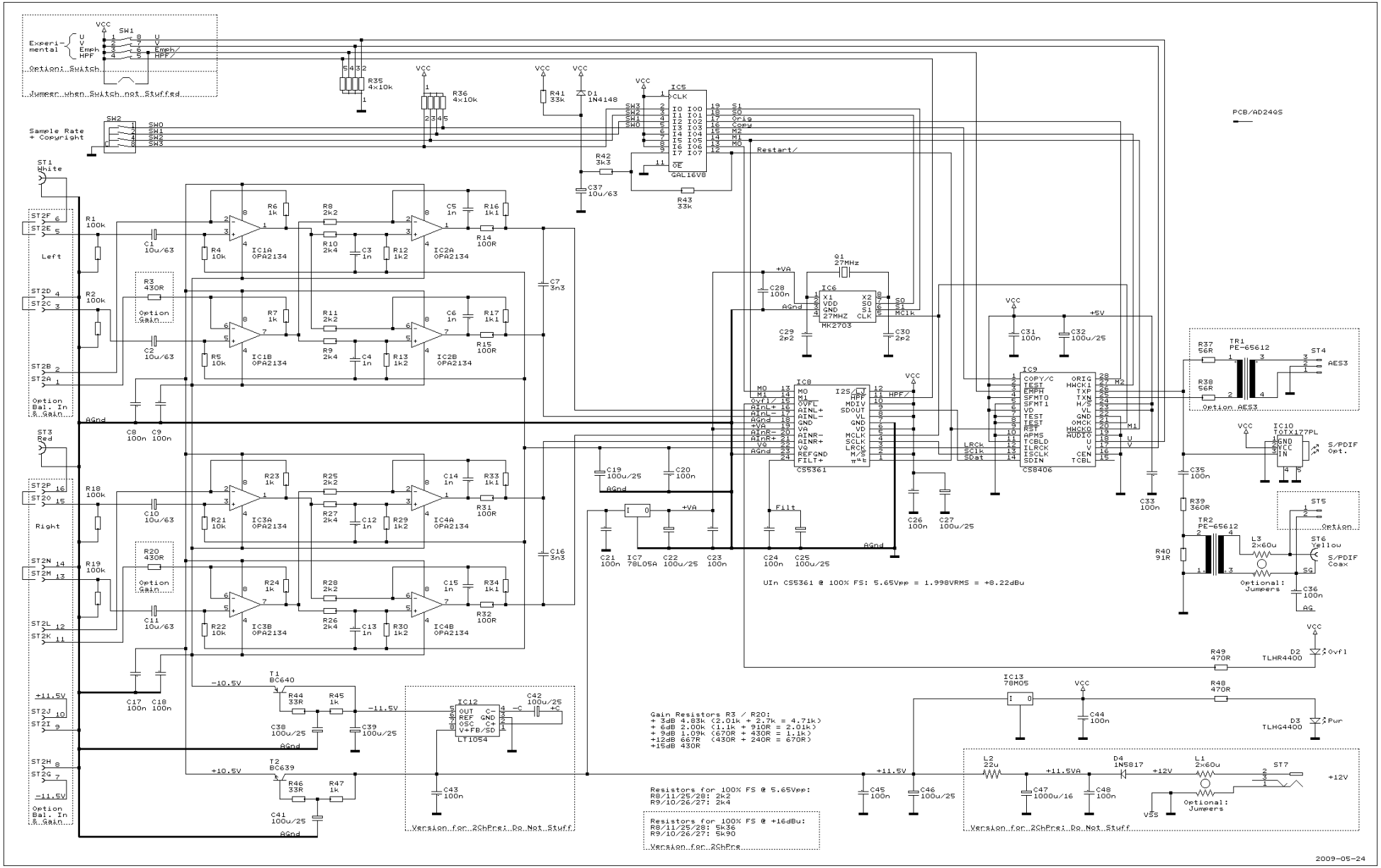
PCB/AD2405
Experimental
U
V
Emph
HPF
Emph/
HPF/
Option: Switch
Jumper when Switch not Stuffed
SW1
R35 4x10k
R36 4x10k
R41 33k
D1 1N4148
IC5
GAL16V8
R42 3k3
C37 10u/63
R43 33k
Restart/
Samele Rate + Copyright
SW2
ST1 White
ST3 Red
Left
Right
Option Bal. In & Gain
R1 100k
R2 100k
R18 100k
R19 100k
R3 430R
R20 430R
Option Gain
C1 10u/63
C2 10u/63
C10 10u/63
C11 10u/63
C8 100n
C9 100n
C17 100n
C18 100n
IC1A OPA2134
IC1B OPA2134
IC2A OPA2134
IC2B OPA2134
IC3A OPA2134
IC3B OPA2134
IC4A OPA2134
IC4B OPA2134
C7 3n3
C16 3n3
AGnd
Q1 27MHz
IC6 MK2703
C28 100n
C29 2p2
C30 2p2
IC8 CS5361
C19 100u/25
C20 100n
IC7 78L05A
C21 100n
C22 100u/25
C23 100n
C24 100n
C25 100u/25
Filt
C26 100n
C27 100u/25
UIn CS5361 @ 100% FS: 5.65Vpp = 1.998VRMS = +8.22dBu
IC9 CS8406
C31 100n
C32 100u/25
C33 100n
C35 100n
R37 56R
R38 56R
TR1 PE-65612
ST4
AES3
Option AES3
IC10 TOTX177PL
S/PDIF Opt.
R39 360R
TR2 PE-65612
ST5
Option
ST6 Yellow
S/PDIF Coax
L3 2x60u
Optional: Jumpers
R40 91R
C36 100n
AG
R49 470R
D2 TLHR4400
Ovfl
IC13 78M05
C44 100n
R48 470R
D3 TLHG4400
Pwr
T1 BC640
T2 BC639
R44 33R
R45 1k
R46 33R
R47 1k
C38 100u/25
C39 100u/25
C41 100u/25
IC12 LT1054
C42 100u/25
C43 100n
Version for 2ChPre: Do Not Stuff
Gain Resistors R3 / R20:
+ 3dB 4.83k (2.01k + 2.7k = 4.71k)
+ 6dB 2.00k (1.1k + 910R = 2.01k)
+ 9dB 1.09k (670R + 430R = 1.1k)
+12dB 667R (430R + 240R = 670R)
+15dB 430R
Resistors for 100% FS @ 5.65Vpp:
R8/11/25/28: 2k2
R9/10/26/27: 2k4
Resistors for 100% FS @ +16dBu:
R8/11/25/28: 5k36
R9/10/26/27: 5k90
Version for 2ChPre
C45 100n
C46 100u/25
L2 22u
C47 1000u/16
C48 100n
D4 1N5817
L1 2x60u
ST7
+12V
Optional: Jumpers
2009-05-24