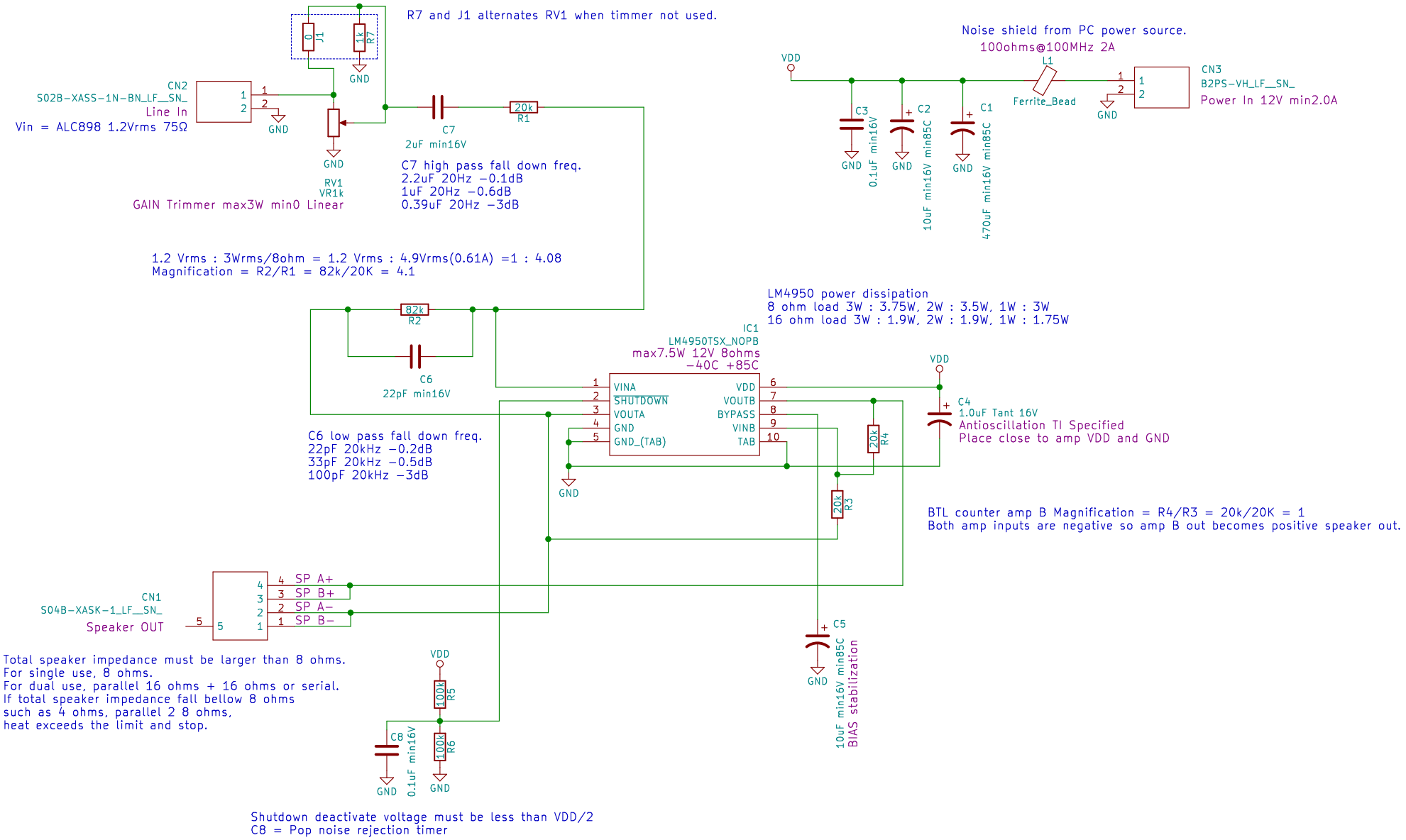
R7 and J1 alternates RV1 when timmer not used.
0
J1
1k
R7
GND
CN2
S02B-XASS-1N-BN_LF__SN_
Line In
Vin = ALC898 1.2Vrms 75Ω
GND
C7
2uF min16V
20k
R1
GND
RV1
VR1k
GAIN Trimmer max3W min0 Linear
C7 high pass fall down freq.
2.2uF 20Hz −0.1dB
1uF 20Hz −0.6dB
0.39uF 20Hz −3dB
Noise shield from PC power source.
100ohms@100MHz 2A
VDD
L1
Ferrite_Bead
CN3
B2PS-VH_LF__SN_
Power In 12V min2.0A
GND
C3
0.1uF min16V
C2
10uF min16V min85C
C1
470uF min16V min85C
1.2 Vrms : 3Wrms/8ohm = 1.2 Vrms : 4.9Vrms(0.61A) =1 : 4.08
Magnification = R2/R1 = 82k/20K = 4.1
LM4950 power dissipation
8 ohm load 3W : 3.75W, 2W : 3.5W, 1W : 3W
16 ohm load 3W : 1.9W, 2W : 1.9W, 1W : 1.75W
82k
R2
C6
22pF min16V
IC1
LM4950TSX_NOPB
max7.5W 12V 8ohms
−40C +85C
VINA
SHUTDOWN
VOUTA
GND
GND_(TAB)
VDD
VOUTB
BYPASS
VINB
TAB
VDD
C4
1.0uF Tant 16V
Antioscillation TI Specified
Place close to amp VDD and GND
20k
R4
20k
R3
GND
C6 low pass fall down freq.
22pF 20kHz −0.2dB
33pF 20kHz −0.5dB
100pF 20kHz −3dB
BTL counter amp B Magnification = R4/R3 = 20k/20K = 1
Both amp inputs are negative so amp B out becomes positive speaker out.
CN1
S04B-XASK-1_LF__SN_
Speaker OUT
SP A+
SP B+
SP A−
SP B−
C5
10uF min16V min85C
BIAS stabilization
GND
Total speaker impedance must be larger than 8 ohms.
For single use, 8 ohms.
For dual use, parallel 16 ohms + 16 ohms or serial.
If total speaker impedance fall bellow 8 ohms
such as 4 ohms, parallel 2 8 ohms,
heat exceeds the limit and stop.
VDD
100k
R5
C8
0.1uF min16V
100k
R6
GND
GND
Shutdown deactivate voltage must be less than VDD/2
C8 = Pop noise rejection timer