

Ovation ax-Amplifier

- Ovation sx-Amplifier but with AFEC and switched auto bias
- U1 reduces full power distortion from 0.04% to 0.0035% - about 20 dB at 20kHz. Also removes output offsets (although I will still provide a pot on the board to trim out the offset. Clipping performance is very clean with no overhang. No bias adjustment.
- For this version of the design, I will switch the standing current from low bias (about 500 mA total) to high bias (1.4 A total) using a detect circuit which still has to be done. Fast attack time with delay to switch back to low bias. This will keep things a bit cooler.
- The power supply for the amplifier will be integrated onto the same PCB – rectifier and caps to make construction easier – have to make sure the ventilation is good though!
- The op-amps will be SMD and located on top side of the PCB

