



AUREXX CRYSTAL 1 (2011)

mod-0: no NFB; $A_o=667$; $Z\text{-out}=45\text{ Ohm}$; 42Hz-35kHz (-3dB). With NFB: at edge of instability (13-4)
 mod-1: $R_1, 2, 9, 10=1M-1/2W$; $R_{11}, 12=150E-1W$ (14-4)
 mod-2: Separate chassis = mains from audio ground add $R_{17}=27E/1W$ and $C_8=100nF/630V$ (15-4)
 mod-3: add $R_{18}, 19=1M-1/2W$; no NFB. $Z\text{-out}=3\text{ Ohm}$; $A_o=24$; 10Hz-37kHz (-3dB); $P_{max}=2.9W$ (28-4)
 mod-4: with FB+ $C_9, 10=180pF$ -Styro.. $Z\text{-out}=1.2\text{ Ohm}$ $A_o=8$; 4Hz-60kHz (-3dB); $P_{max}=3.4W$ (11-5)
 mod-5: $C_{3,4}=22uF/63V$ for first order behavior (18-5)
 mod-6: remove $R_{18}, 19$; remove $C_{3,4}$; $R_{11}, 12=10E$ create neg Bias for EL84 (Leon B. 10-6)
 mod-7: remove $R_{11}, 12$; $C_{3,4}$: replace by 2 x 4 x power LED red (Huib Selder 12-10)