

Franco's 200pV/ $\sqrt{\text{Hz}}$ amplifier: World Record?

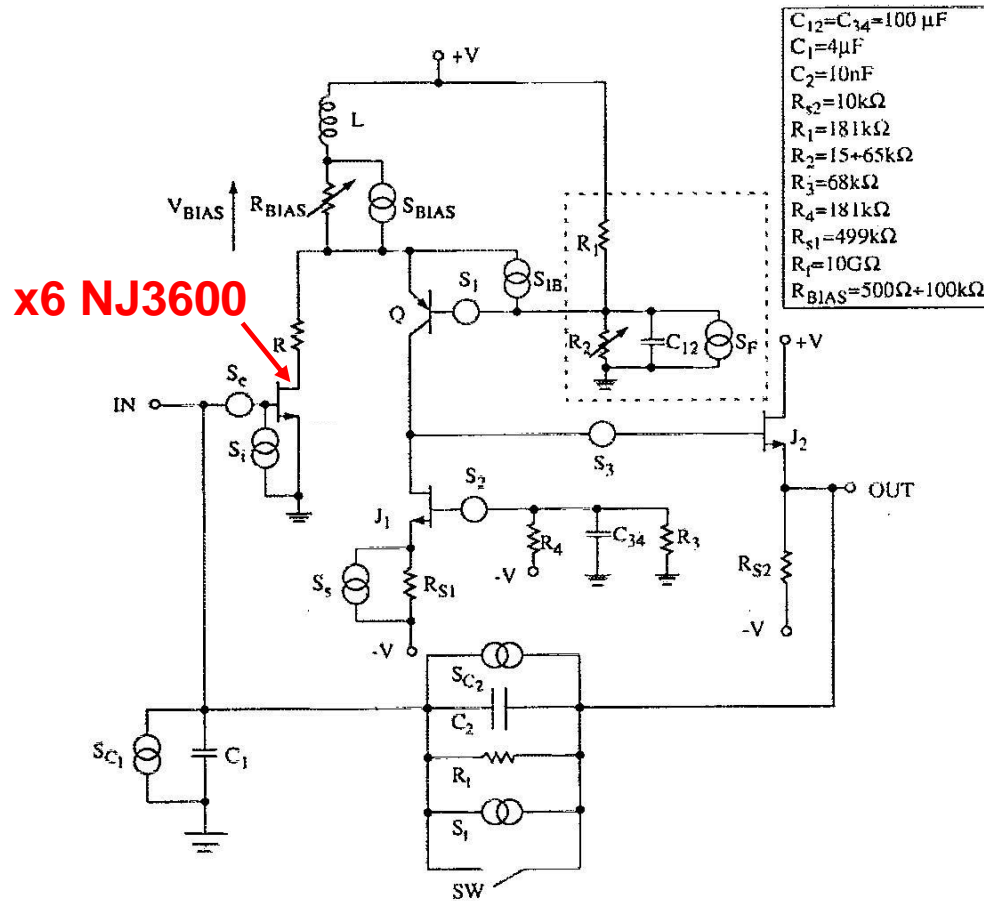


FIG. 2. Detailed schematic of the front-end unit.

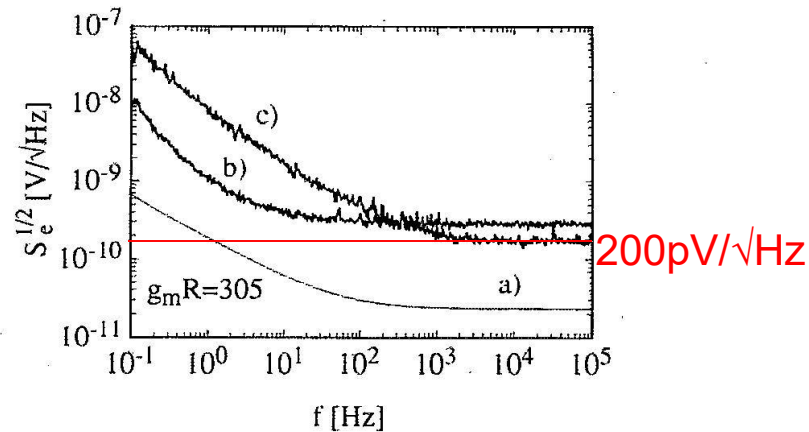


FIG. 4. Square root of the noise power density $S_e(f)$ as a function of frequency. a) Calculated contribution which adds quadratically to the noise voltage of the DUT as a combined effect of the noise in all the other active and passive components in the front-end unit. b) Square root of spectral noise density measured on the parallel combination of six JFETs working at a total standing current of 2.5 mA. c) Square root of spectral noise density measured on the same combination of JFETs at a total standing current of 28.7 mA.

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