

Video Amp

$$G = 25 - 30$$

Variable

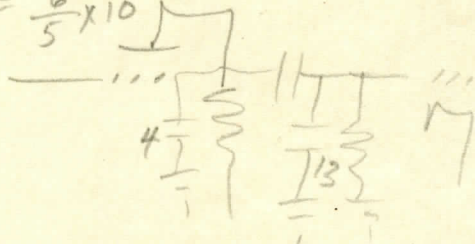
$$\beta = 10 \text{ m.c.}$$

Try 6AK5 & 6AG7

$$G = r_L g_m \quad \text{Let stage gain be 6}$$

$$6 = 5 \times 10^{-3} g_m$$

$$r_L = \frac{6}{5} \times 10^3 = 1200 \Omega$$



$$f_c = \frac{1}{2\pi R_L C}$$

$$= \frac{1}{6.28 \times 1.2 \times 10^3 \times 1.7 \times 10^{-11}}$$

$$= \frac{.078 \times 10^8}{1.28}$$

$$L = .25 \times 1.2 \times 10^3 \times 1.7 \times 10^{-11}$$

$$= .51 \times 10^{-8}$$

$$= .25 \times 7.44 \times 10^6 \times 1.7 \times 10^{-11}$$

$$= .612 \times 10^{-5} = 6.12 \mu H$$

$$= 7.8 \text{ m.c.} \times 1.4 = 10.9 \text{ m.c.}$$

