

$$1) \frac{R_{sm}}{w_c R_{big}} \frac{g_m (19.2 I_{con})}{C} = \frac{220}{10K} \frac{1}{1nF} 19.2 I_{con}$$

$$= 4.22 \times 10^8 I_{con}$$

(or $f_c = 6.72 \times 10^7 I_{con} \text{ Hz}$)

$$2) w_c \approx \frac{R_{sm}}{R_{big}} \frac{19.2 I_{con}}{C}$$

Oberheim SEM: a) $w_c = \frac{220}{100K} \frac{19.2 I_{con}}{300pF}$

b) noninverting } $= 1.41 \times 10^8 I_{con}$
 (or $f_c = 2.24 \times 10^7 I_{con}$)

ASM VCF: $w_c = \frac{22}{10K} \frac{19.2 I_{con}}{330pF} = 1.28 \times 10^8 I_{con}$

b) noninverting
 (inv. at OTA cancels inv. of integrator)

PA: A9730 VCF: $w_c = \frac{220}{22K} \frac{19.2 I_{con}}{1000pF}$

$$= 1.92 \times 10^8 I_{con}$$

b) noninverting
 (inv. at OTA cancels inv. of integrators)

$$3) \omega_c = \frac{19.2 I_{con}}{C}$$

$$0) \text{ Monowave } \dot{I}_{con} (19.2 / 100 \text{ nF}) = 1.92 \times 10^8 I_{con}$$

$$1) \text{ OB-MX } = I_{con} (19.2 / 1 \mu\text{F}) = 19.2 \times 10^8 I_{con}$$

$$2) \text{ Mini } = I_{con} (19.2 / 0.068 \mu\text{F}) = 2.82 \times 10^8 I_{con}$$

$$3) \text{ 904A-R1 } = I_{con} (19.2 / 1.2 \mu\text{F}) =$$

$$4) \text{ 904A-R2 } = I_{con} (19.2 / 0.3 \mu\text{F}) =$$

$$5) \text{ 904A-R3 } = I_{con} (19.2 / 0.75 \mu\text{F}) =$$

$$6) \text{ Rogve } = I_{con} (19.2 / 0.027 \mu\text{F}) = 7.11 \times 10^8 I_{con}$$

$$7) \text{ Prodigy } = I_{con} (19.2 / 0.027 \mu\text{F}) = 7.11 \times 10^8 I_{con}$$

$$8) \text{ Source } = I_{con} (19.2 / 0.01 \mu\text{F}) = 1.92 \times 10^9 I_{con}$$

$$9) \text{ memory mag } = I_{con} (19.2 / 0.01) = 1.92 \times 10^9 I_{con}$$