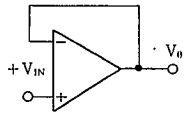
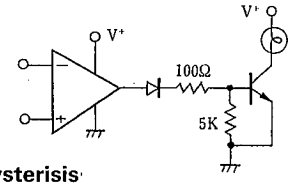
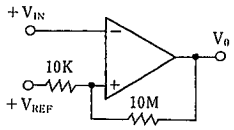
Voltage Follower



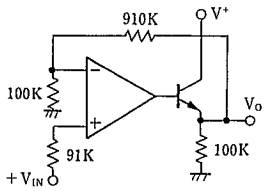
Lamp Driver



Comparator with Hysterisis

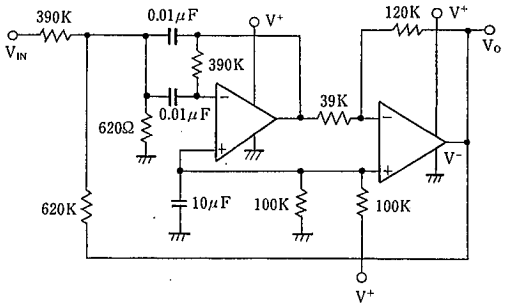


Power Amplifier

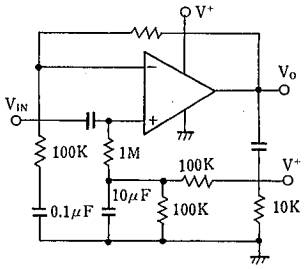


$A_V = 10$

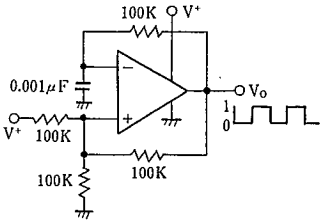
1KHz Band Pass Active Filter



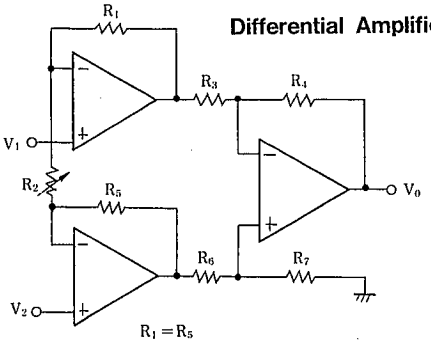
Non-Inverting Amplifier (AC-Couple)



Square Wave Generator



Differential Amplifier

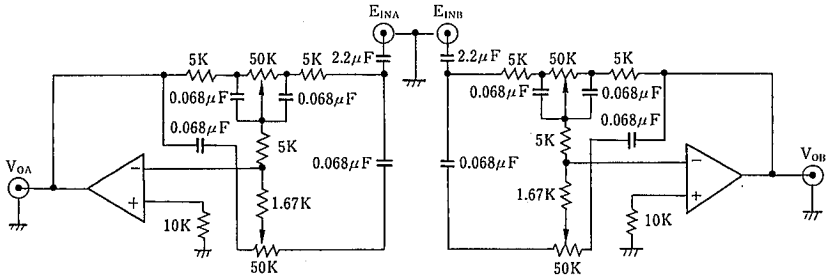


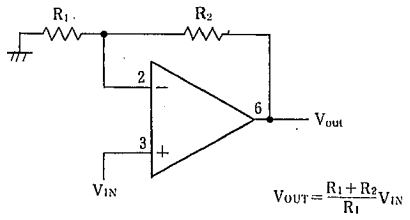
$R_1 = R_5$

$R_3 = R_4 = R_6 = R_7$

$V_0 = 1 + \frac{2R_1}{R_2}(V_2 - V_1)$

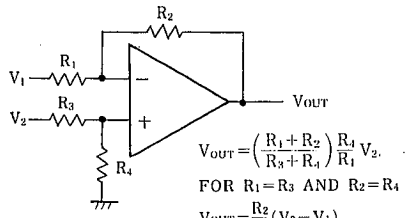
Stereo Tone Control





$$V_{OUT}=\frac{R_1+R_2}{R_1}V_{IN}$$

Non-Inverting Amplifier



$$V_{OUT}=\left(\frac{R_1+R_2}{R_3+R_4}\right)\frac{R_4}{R_1}V_2$$

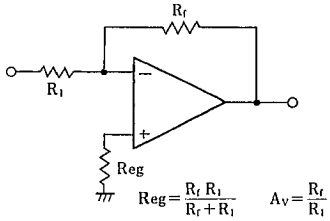
FOR $R_1=R_3$ AND $R_2=R_4$

$$V_{OUT}=\frac{R_2}{R_1}(V_2-V_1)$$

$$\frac{R_1}{R_2}=\frac{R_2}{R_4}$$

Differential Amplifier

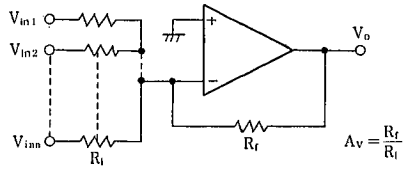
Inverting Amplifier



$$Reg=\frac{R_f R_1}{R_f+R_1}$$

$$A_V=\frac{R_f}{R_1}$$

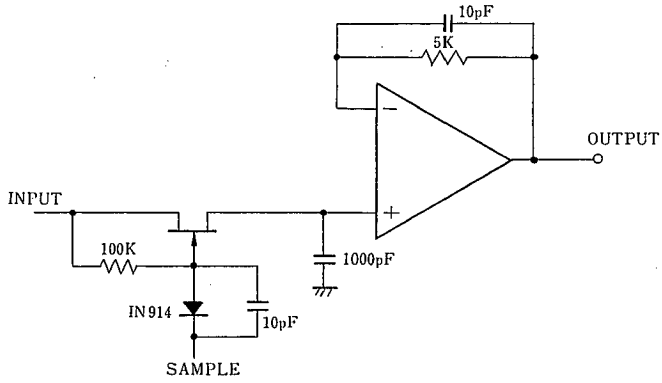
Inverting Summing Amplifier



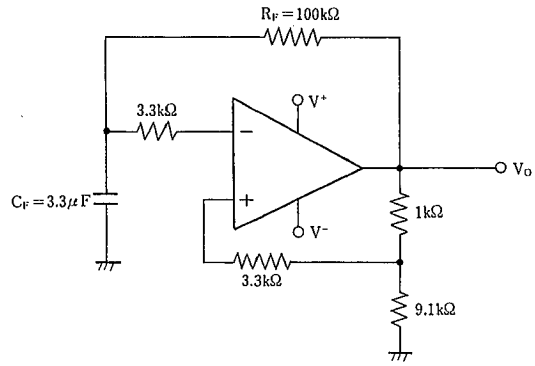
$$A_V=\frac{R_f}{R_i}$$

$$V_0=-\frac{R_f}{R_i}(V_{in1}+V_{in2}-\cdots\cdots+V_{inn})$$

Sample and Hold

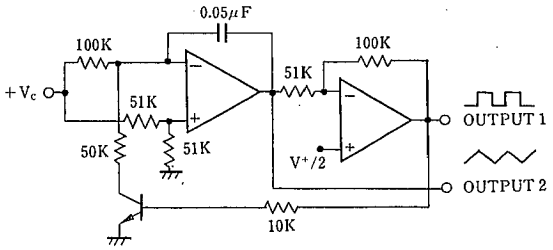


0.5Hz Square Wave Oscillator

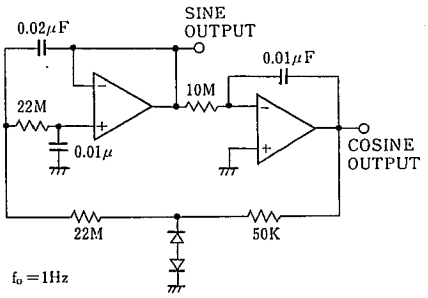


$$f=\frac{1}{2\pi R_F C_F}$$

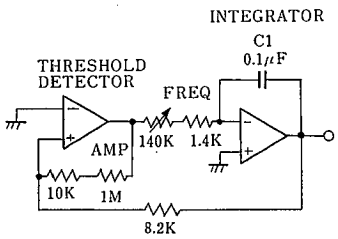
Voltage Control Oscillator (VCO)



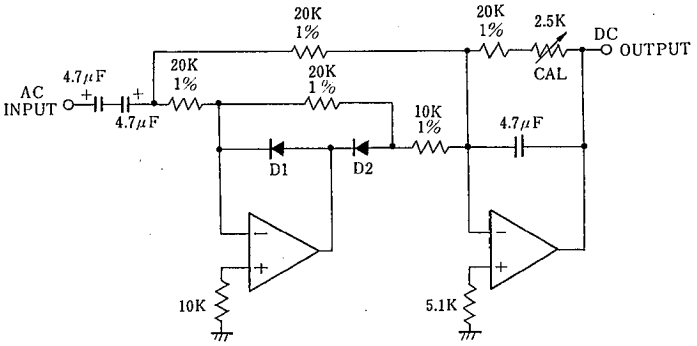
Low Frequency Sine Wave Oscillator



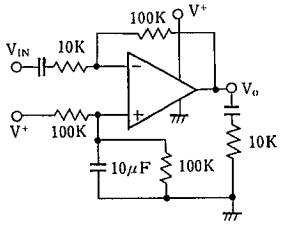
Triangle Wave Oscillator



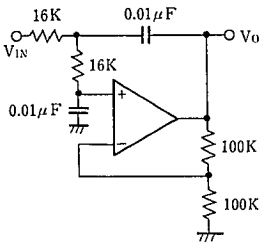
Full Wave Rectifier and Average Filter



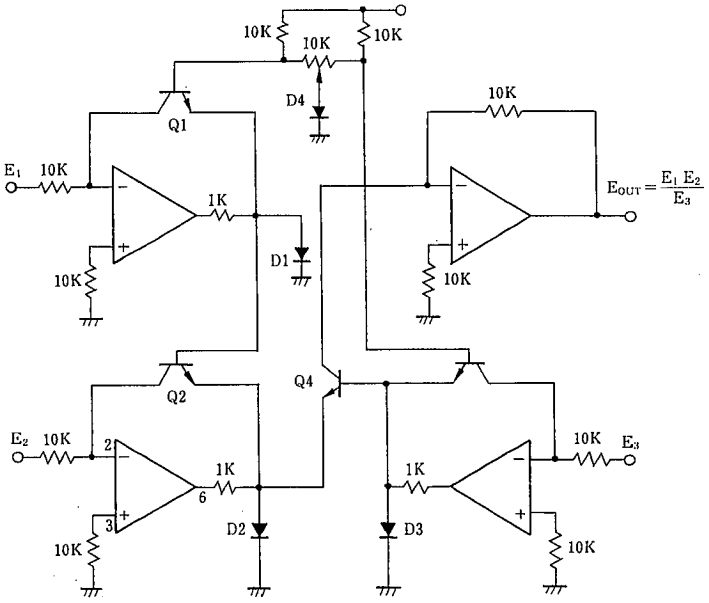
Inverting Amplifier (AC-Couple)



1kHz Low Pass Active Filter

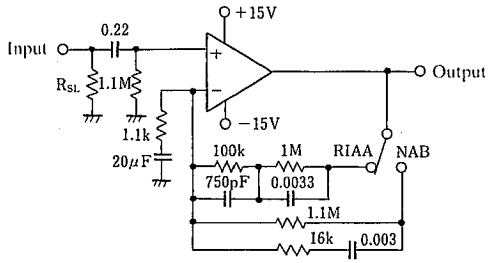


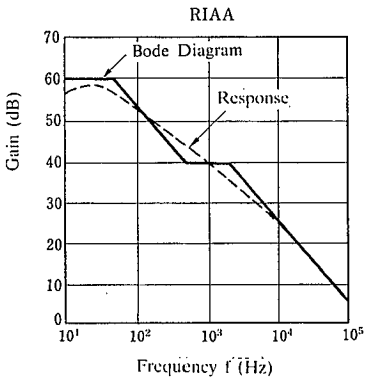
Analog Multiplier and Devider

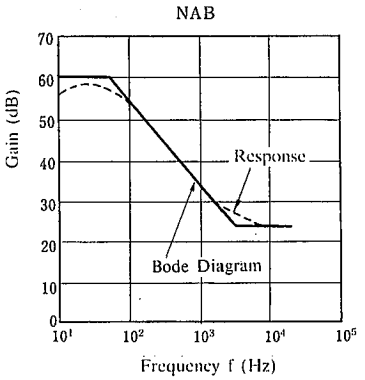


Preamplifier

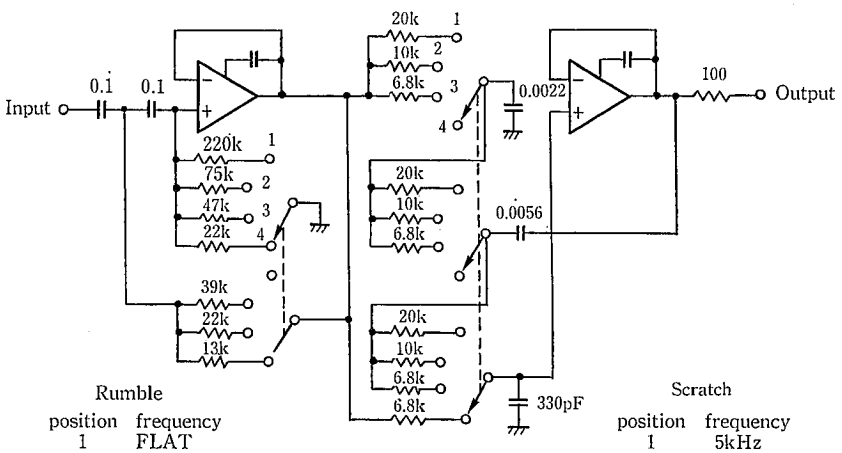
RIAA/NAB Compensation







■ Rumble/Scratch Filter



Rumble

position	frequency
1	FLAT
2	30Hz
3	50Hz
4	80Hz

Scratch

position	frequency
1	5kHz
2	10kHz
3	15kHz
4	FLAT