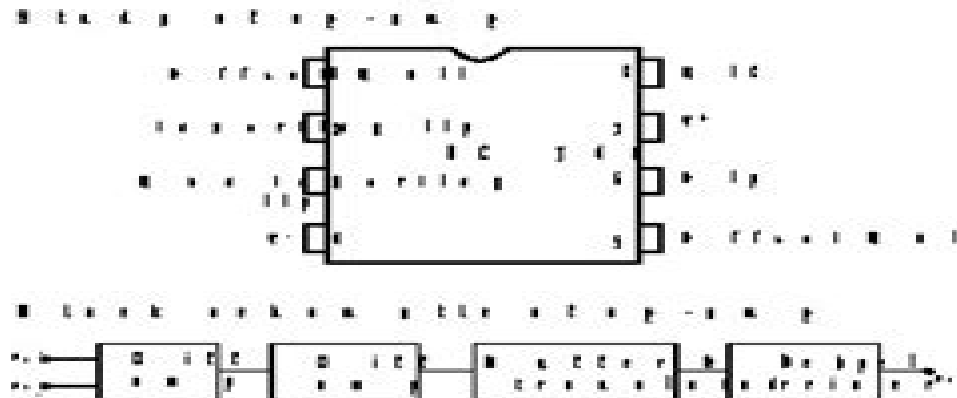


STUDY OF OP-AMP

An operational amplifier or op-amp is a linear integrated circuit that has a very high voltage gain, high input impedance and low output impedance. Op-amp is basically a differential amplifier whose basic function is to amplify the difference between two input signals.

Op-amp has five basic terminals, that is, two input terminals, one o/p terminal and two power supply terminals. Pin2 is called the inverting input terminal and it gives opposite polarity at the output if a signal is applied to it. It produces a phase shift of 180° between input and output. Pin3 is called the non-inverting terminal that amplifies the input signal without inversion, i.e., there is no phase shift or i/p is in phase with o/p. The op-amp usually amplifies the difference between the voltages applied to its two input terminals. Two further terminals pins 7 and 4 are provided for the connection of positive and negative power supply voltages respectively. Terminals 1 and 5 are used for dc offset. The pin 8 marked NC indicates 'No Connection'.



The block diagram of op-amp shows 2 difference amplifiers, a buffer for less loading, a level translator for adjusting operating point to original level and o/p stage. An ideal op-amp should have the following characteristics:

1. Infinite bandwidth
2. infinite input resistance
3. infinite open loop gain
4. zero output resistance
5. zero offset

Op-amps have two operating configurations; open loop and closed loop. In open loop configuration, it can operate as a switch but gain is uncontrolled. In closed loop configuration, gain can be controlled by feedback resistance R_f and input resistance R_{in} .

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