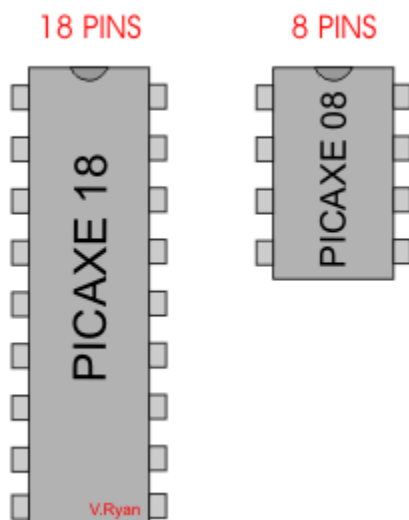


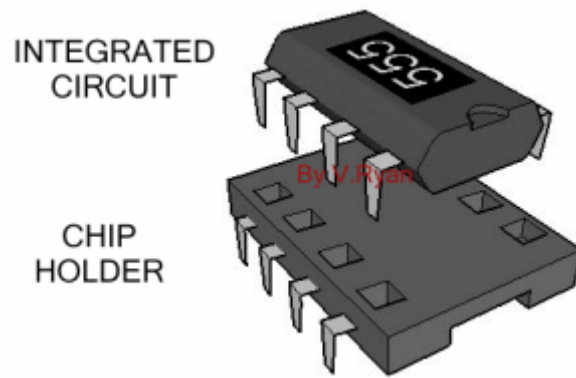


INTEGRATED CIRCUITS - 3



The packages of popular integrated circuits used in schools and colleges are sometimes called a Dual In-Line Packages. They are also called either DIP packages or DIL packages and two examples are shown opposite. The PICAXE 18 is a DIL package with 18 pins and its smaller relation is the PICAXE 08 with 8 pins.

The pins of integrated circuits can be delicate and trying to solder each pin to a PCB can be very difficult. It is often a good idea to solder a cheap chip holder to a PCB and then press the integrated circuit package into it.



The circuit below is based on the PICAXE-18 integrated circuit. Two 19 pin chip holders have been soldered to the PCB and the 18 pin integrated circuits pressed into them. Soldering integrated circuit packages directly to a PCB can be awkward because the heat from the soldering iron can damaged the integrated circuit, if it reaches it. Therefore, holders are normally used. Another advantage of using the holders is that the integrated circuits can be removed at anytime.

