

## Wide Range Voltage Controlled Oscillator

Any section of IC1 can be used but all unused inputs must be grounded – otherwise the CMOS will pick up line hum and operate in its linear region, overheating as a result.

With the values shown, a frequency range of about 50Hz to 2kHz is obtained – just right for an audio sweep oscillator. If the mark/space ratio is unimportant, it can go down to 1Hz.

The control voltage, which ideally should be in the range 1.5V to 3.5V, is applied to the power supply connections. IC2 is used to square up and buffer the output.

