



## SIMPLE NOISE GATE

A low-noise op amp (TL072, TL082, etc) and an LM13600 transconductance amplifier make up a simple noise gate, which shuts down the audio path in the absence of signal. When a signal is detected, the gate opens.

During high signal levels, capacitor C6 is kept charged and the gate is open.

When the signal falls below threshold levels, the voltage on C6 decreases and the gain is progressively lowered.

The accompanying diagram gives the typical threshold levels, showing the percentage output as the input rises from 20mV (no output) to 100mV (full output).