

Analogue gate with no offset

An analogue gate capable of controlling audio signals by means of t.t.l. levels is shown. It is an improvement over existing gates in that when off there is negligible d.c. offset present at the output, thereby simplifying design of any subsequent stages in a large system.

Attenuation when off is approximately 66dB and negligible when on and fed into high impedance stages. The control should be logic 1 (+5V) to open the gate, and logic 0 (0V) to close it again.

There are many possible applications for such a circuit in the design of programmed channel selectors in the field of music synthesis for instance, for which it was designed.

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