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A Novel Single-Element- Controlled CFOA-Based Square Wave Oscillator

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**Abstract**

*A novel square wave oscillator circuit using the current-feedback operational amplifier (CFOA) is presented. The circuit uses one CFOA, three resistors and one capacitor. The main advantages of this oscillator are that it enjoys independent control of the frequency of oscillation and the condition of oscillation; and the frequency of oscillation is controlled by one passive element. The experimental results that support the theoretical expectations are also included.*

