

Universal Three Input And One Output Current-Mode Filter Without External Passive Elements

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Summary

A new current-mode universal filter is proposed. The filter uses only operational amplifiers and operational transconductance amplifiers (OTAs) and can realise lowpass, highpass, bandpass, notch and allpass responses without changing circuit topology. The parameters ω_0 , Q_0 , and the gain can be electronically tuned by adjusting the bias currents of the OTAs. The proposed circuit has low sensitivity

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