

# Remove Noise From Input Signal by Using IIR and FIR Filter Combined Circuit

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**Abstract:** Filters plays vital role in digital signal processing for filtering the signal and get filtered signal from the noisy signal Measured signal is damaged by noise and this signal cannot be utilized for analysis and for this reason it is required to restore it. Noise source was not detected. Therefore, the only conceivable solution is to filter the observed signal. We designed the IIR and FIR filter combined circuit after that we add random noise in the signal and in MATLAB software we get filtered signal from the noisy signal and we get the desired result by MATLAB software in simulation environment in the lab.

**Keywords:** FIR (finite impulse response), AWGN (adaptive white Gaussian noise), DSP, LPF (low pass filter), VT (virtualization tool), (A/D) Analog to Digital converter, IIR (infinite impulse response)

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