

Comparison between FIR and IIR filters.

FIR filter	IIR filter
<ol style="list-style-type: none"> 1. The impulse response of this filter is restricted to finite number of samples. 2. FIR filters can have precisely linear phase. 3. Closed-form design equations do not exist. 4. Most of the design methods are iterative procedures, requiring powerful computational facilities for their implementation. 5. Greater flexibility to control the shape of their magnitude response. 	<p>The impulse response of this filter extends over an infinite duration.</p> <p>These filters do not have linear phase.</p> <p>A variety of frequency selective filters can be designed using closed-form design formulas.</p> <p>These filter can be designed using only a hand calculator and tables of analog filter design parameters.</p> <p>Less flexibility specially for obtaining non-standard frequency responses.</p>