

Filter Basics Part 4: Key Filter Types And Technologies

Source: [Knowles Precision Devices, LLC](#)

To choose the right filter for your application, you first need to have a solid understanding of how to evaluate filter types and identify the specific filter technology that will best suit your application.

Filter Types

To start, there are four filter response types that can be used to define the frequencies that will be removed or allowed by the filter.

Low Pass

Low pass filters allow frequencies below a given frequency to pass (be transmitted or received) while rejecting frequencies above the given frequency.

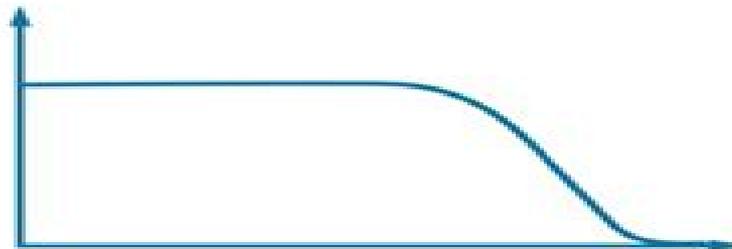


Figure 1. An illustration of a how a low pass filter works.

High Pass

High pass filters function in the opposite manner of a low pass filter. High pass filters let frequencies above a given frequency pass through the filter while rejecting frequencies below the given frequency.



Figure 2. An illustration of a how a high pass filter works.

Band Pass

Band pass filters pass frequencies between two frequencies (set upper and a lower limits) while rejecting all other frequencies.



Filter Basics Dsp

LL Leslie

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

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