

Filter Basics Part 4: Key Filter Types And Technologies

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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.

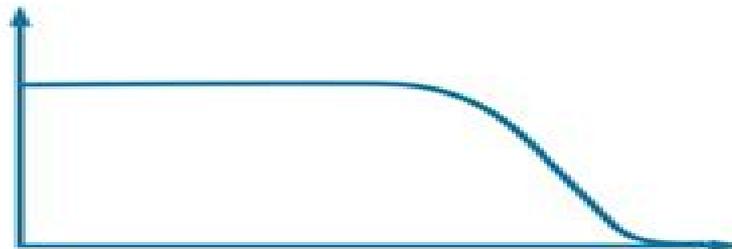


Figure 1. An illustration of a how a low pass filter works.

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

William E. Sabin, Edgar O. Schoenike



Filter Basics Dsp:

Fundamentals of Analog and Digital Signal Processing Li Tan, Jean Jiang, 2007-05-01 The book is suitable to be used as a one semester senior level course for the undergraduate engineering technology program including electronics computer and biomedical engineering technologies However the book could also be useful as a reference for undergraduate engineering students science students and practicing engineers

DSP for Embedded and Real-Time Systems Robert Oshana, 2012-07-12 This book includes a range of techniques for developing digital signal processing code tips and tricks for optimizing DSP software and various options available for constructing DSP systems from numerous software components

Designing Audio Effect Plug-ins in C++ with Digital Audio Signal Processing Theory William C. Pirkle, 2013 Includes bibliographical references and index

FPGAs: World Class Designs Clive Maxfield, 2009-02-24 All the design and development inspiration and direction a hardware engineer needs in one blockbuster book Clive Maxfield renowned author columnist and editor of PL DesignLine has selected the very best FPGA design material from the Newnes portfolio and has compiled it into this volume The result is a book covering the gamut of FPGA design from design fundamentals to optimized layout techniques with a strong pragmatic emphasis In addition to specific design techniques and practices this book also discusses various approaches to solving FPGA design problems and how to successfully apply theory to actual design tasks The material has been selected for its timelessness as well as for its relevance to contemporary FPGA design issues

Contents Chapter 1 Alternative FPGA Architectures Chapter 2 Design Techniques Rules and Guidelines Chapter 3 A VHDL Primer The Essentials Chapter 4 Modeling Memories Chapter 5 Introduction to Synchronous State Machine Design and Analysis Chapter 6 Embedded Processors Chapter 7 Digital Signal Processing Chapter 8 Basics of Embedded Audio Processing Chapter 9 Basics of Embedded Video and Image Processing Chapter 10 Programming Streaming FPGA Applications Using Block Diagrams In Simulink Chapter 11 Ladder and functional block programming Chapter 12 Timers

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1 determine the pressure ratio developed and the specific work input to drive a centrifugal air compressor having an impeller

diameter of 0.5 m and running at 7000 rpm assume zero whirl at the

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follows the law $pV^{1.35} = \text{const}$ the compressor runs at 160rpm with average piston speed of 150 m/min determine the size of the

cylinder given data power $P = 150 \text{ kW}$ piston speed $2 \ln 150 \text{ m/min}$

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web compressor capacity is volume of compressed air flow upon a particular given time and is expressed in m^3/hour or l/min

various compressor types vary in capacity to specify particular application of compressor equipment amount of inlet air

consumed upon a particular given time prior to compression is also considered a unit capacity

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clearance viz 2.2, 5.1 and 7.9 of rotor blade height at the exit at three flow