

# Common Mode Filter Design Guide

## Introduction

The selection of component values for common mode filters need not be a difficult and confusing process. The use of standard filter alignments can be utilized to achieve a relatively simple and straightforward design process, though such alignments may readily be modified to utilize pre-defined component values.

## General

Line filters prevent excessive noise from being conducted between electronic equipment and the AC line; generally, the emphasis is on protecting the AC line. Figure 1 shows the use of a common mode filter between the AC line (via impedance matching circuitry) and a (noisy) power converter. The direction of common mode noise (noise on both lines occurring simultaneously referred to earth ground) is from the load and into the filter, where the noise common to both lines becomes sufficiently attenuated. The resulting common mode output of the filter onto the AC line (via impedance matching circuitry) is then negligible.

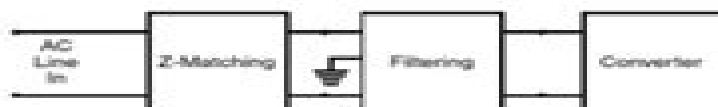


Figure 1. Generalized line filtering

The design of a common mode filter is essentially the design of two identical differential filters, one for each of the two polarity lines with the inductors of each side coupled by a single core:



Figure 2. The common mode inductor

For a differential input current ( (A) to (B) through L1 and (B) to (A) through L2), the net magnetic flux which is coupled between the two inductors is zero.

Any inductance encountered by the differential signal is then the result of imperfect coupling of the two chokes; they perform as independent components with their leakage inductances responding to the differential signal; the leakage inductances attenuate the differential signal.

When the inductors, L1 and L2, encounter an identical signal of the same polarity referred to ground (common mode signal), they each contribute a net, non-zero flux in the shared core; the inductors thus perform as independent components with their mutual inductance responding to the common signal; the mutual inductance then attenuates this common signal.

## The First Order Filter

The simplest and least expensive filter to design is a first order filter; this type of filter uses a single reactive component to store certain bands of a spectral energy without passing this energy to the load. In the case of a low pass common mode filter, a common mode choke is the reactive element employed.

The value of inductance required of the choke is simply the load in Ohms divided by the radian frequency at and above which the signal is to be attenuated. For example, attenuation at and above 4000 Hz into a 50Ω load would require a 1.99 mH ( $50/(2\pi \times 4000)$ ) inductor. The resulting common mode filter configuration would be as follows:



Figure 3. A first order (single pole) common mode filter

The attenuation at 4000 Hz would be 3 dB, increasing at 6 dB per octave. Because of the predominant inductor dependence of a first order filter, the variations of actual choke inductance must be considered. For example, a  $\pm 20\%$  variation of rated inductance means that the nominal 3 dB frequency of 4000 Hz could actually be anywhere in the range from 3332 Hz to 4999 Hz. It is typical for the inductance value of a common mode choke

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**Elya B. Joffe, Kai-Sang Lock**



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*CDOT Design Guide: Drainage design manual* Colorado. Department of Transportation, 1995

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**Grounds for Grounding** Elya B. Joffe,Kai-Sang Lock,2011-09-20 GROUNDS FOR GROUNDING

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### **Table of Contents Common Mode Filter Design Guide**

1. Understanding the eBook Common Mode Filter Design Guide
  - The Rise of Digital Reading Common Mode Filter Design Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Common Mode Filter Design Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Common Mode Filter Design Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Common Mode Filter Design Guide
  - Personalized Recommendations

- Common Mode Filter Design Guide User Reviews and Ratings
- Common Mode Filter Design Guide and Bestseller Lists
- 5. Accessing Common Mode Filter Design Guide Free and Paid eBooks
  - Common Mode Filter Design Guide Public Domain eBooks
  - Common Mode Filter Design Guide eBook Subscription Services
  - Common Mode Filter Design Guide Budget-Friendly Options
- 6. Navigating Common Mode Filter Design Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Common Mode Filter Design Guide Compatibility with Devices
  - Common Mode Filter Design Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Common Mode Filter Design Guide
  - Highlighting and Note-Taking Common Mode Filter Design Guide
  - Interactive Elements Common Mode Filter Design Guide
- 8. Staying Engaged with Common Mode Filter Design Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Common Mode Filter Design Guide
- 9. Balancing eBooks and Physical Books Common Mode Filter Design Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Common Mode Filter Design Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Common Mode Filter Design Guide
  - Setting Reading Goals Common Mode Filter Design Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Common Mode Filter Design Guide
  - Fact-Checking eBook Content of Common Mode Filter Design Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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