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 1999

Introduction

The performance of surface acoustic wave (SAW) filters depends on a number of external factors. These include source and load impedances presented to the filter by external matching networks, the quality of the connections to the filter, the proximity of other circuitry and conducting structures, and the layout of the printed circuit board (PCB) that the filter is soldered to. This application note addresses the later from a practical point of view. The quality of the PCB design can affect critical passband characteristics as well as the ultimate rejection of a SAW band-pass filter. This tutorial outlines the basic principles of PCB design required to obtain the best performance from SAW filters. It is provided as a guide especially for the RF circuit designer with little or no experience in applying SAW filters or in SAW filter PCB layout. Knowledge of appropriate general PCB design rules and standard RF layout principles is assumed.

Background

Many SAW filters have excellent ultimate rejection characteristics inherent to their fundamental designs. These characteristics are shown to best advantage in test fixtures used for production electrical tests. These fixtures are available from SAW filter manufacturers for the purpose of correlating electrical characteristics between the filter manufacturer and the filter customer. These fixtures, usually complete with external impedance matching to 50 ohms, are ideal for correlation purposes. However, these fixtures often contain a great deal of isolation between the coaxial input and output. The typical commercial application requires a much simpler and less costly layout, with no shielding and often in tight spaces. Consequently performance of the SAW filter in the end application is sometimes not as good as in the test fixture or as advertised.

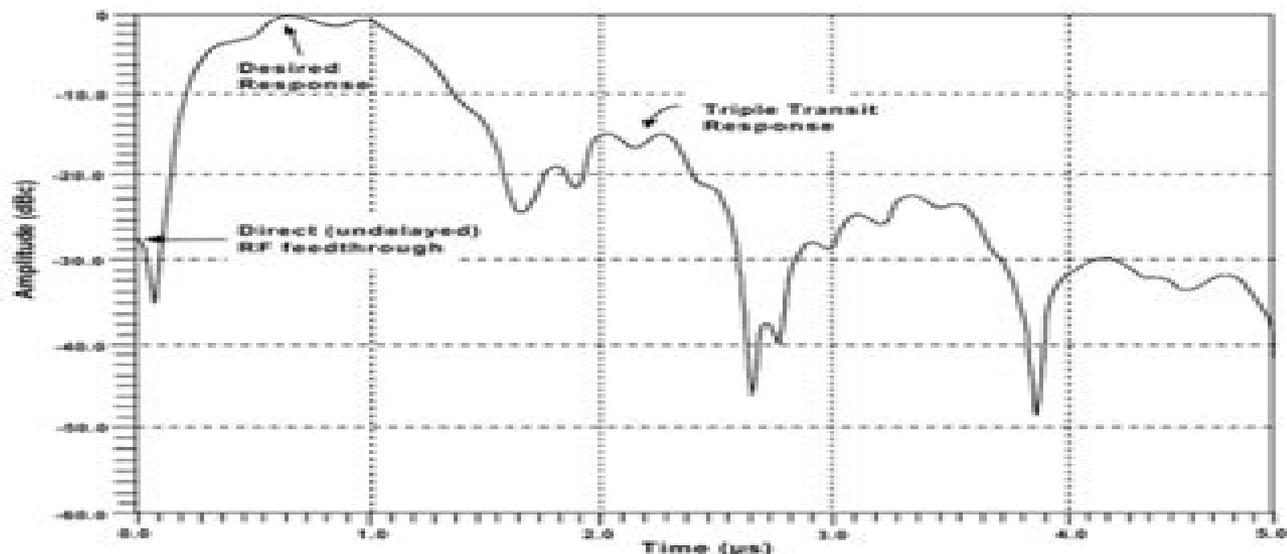


Figure 1
 Representative Impulse Response

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Table of Contents Saw Filter Pcb Layout Wireless

1. Understanding the eBook Saw Filter Pcb Layout Wireless
 - The Rise of Digital Reading Saw Filter Pcb Layout Wireless
 - Advantages of eBooks Over Traditional Books
2. Identifying Saw Filter Pcb Layout Wireless
 - 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 Saw Filter Pcb Layout Wireless
 - User-Friendly Interface
4. Exploring eBook Recommendations from Saw Filter Pcb Layout Wireless
 - Personalized Recommendations
 - Saw Filter Pcb Layout Wireless User Reviews and Ratings
 - Saw Filter Pcb Layout Wireless and Bestseller Lists
5. Accessing Saw Filter Pcb Layout Wireless Free and Paid eBooks
 - Saw Filter Pcb Layout Wireless Public Domain eBooks
 - Saw Filter Pcb Layout Wireless eBook Subscription Services
 - Saw Filter Pcb Layout Wireless Budget-Friendly Options
6. Navigating Saw Filter Pcb Layout Wireless eBook Formats

- ePub, PDF, MOBI, and More
 - Saw Filter Pcb Layout Wireless Compatibility with Devices
 - Saw Filter Pcb Layout Wireless Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Saw Filter Pcb Layout Wireless
 - Highlighting and Note-Taking Saw Filter Pcb Layout Wireless
 - Interactive Elements Saw Filter Pcb Layout Wireless
 8. Staying Engaged with Saw Filter Pcb Layout Wireless
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Saw Filter Pcb Layout Wireless
 9. Balancing eBooks and Physical Books Saw Filter Pcb Layout Wireless
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Saw Filter Pcb Layout Wireless
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Saw Filter Pcb Layout Wireless
 - Setting Reading Goals Saw Filter Pcb Layout Wireless
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Saw Filter Pcb Layout Wireless
 - Fact-Checking eBook Content of Saw Filter Pcb Layout Wireless
 - 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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