

Lowpass Filters Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

<https://marketpublishers.com/r/L79AB8BA14F1EN.html>

Date: November 2024

Pages: 210

Price: US\$ 4,850.00 (Single User License)

ID: L79AB8BA14F1EN

Abstracts

The Global Lowpass Filters Market reached USD 1.6 billion in 2023 and is projected to expand at a CAGR of 9.5% from 2024 to 2032.

The rising use of consumer electronics, such as smart home devices, smartphones, wearables, and entertainment systems, has driven the demand for lowpass filters. These products require effective signal processing to ensure data transmission, high-quality audio, and video, making lowpass filters essential for their functionality. Ongoing advancements in consumer technology continue to fuel the need for more sophisticated filtering solutions.

The market is categorized by technology into analog and digital lowpass filters. The analog lowpass filters market is projected to grow at a CAGR of 8.6% during 2024-2032. These filters process continuous signals and are commonly used in older electronic systems like audio equipment and analog radios. They are designed to block high-frequency signals while allowing lower frequencies to pass through. Analog lowpass filters are valued for their simplicity and efficiency, especially in real-time applications while offering less flexibility compared to digital filters, which are more adaptable to modern systems.

Based on type, the lowpass filter market from the active lowpass filters segment is expected to reach USD 1.8 billion by 2032. These filters use active elements, such as transistors or operational amplifiers, along with resistors and capacitors and require an external power source. They provide more control over signal gain and bandwidth than passive filters. Active filters are crucial in applications that demand high performance and precision, such as telecommunications, medical devices, and audio processing.

In North America, the U.S. held a 76.2% share of the lowpass filters market in 2023. The U.S. leads the market due to its strong presence in key industries, including telecommunications, aerospace, and defense. The ongoing rollout of advanced 5G infrastructure has significantly increased the demand for lowpass filters in mobile devices, antennas, and base stations. Additionally, the growing automotive sector, particularly in electric and autonomous vehicles, is driving the adoption of high-performance filtering solutions. The defense sector's need for secure communication systems also contributes to the expanding market for lowpass filters.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Factor affecting the value chain
 - 3.1.2 Profit margin analysis
 - 3.1.3 Disruptions
 - 3.1.4 Future outlook
 - 3.1.5 Manufacturers
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
 - 3.6.1 Growth drivers
 - 3.6.1.1 Proliferation of consumer electronics
 - 3.6.1.2 Rising demand for wireless communication
 - 3.6.1.3 Increasing adoption of industrial automation
 - 3.6.1.4 Growth in audio equipment and high-fidelity sound systems
 - 3.6.2 Industry pitfalls & challenges

- 3.6.2.1 High competition and price sensitivity
- 3.6.2.2 Complex manufacturing processes
- 3.7 Growth potential analysis
- 3.8 Porter's analysis
- 3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY TYPE OF FILTERS, 2021-2032 (USD MILLION) (MILLION UNITS)

- 5.1 Key trends
- 5.2 Passive lowpass filters
- 5.3 Active lowpass filters

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY TECHNOLOGY, 2021-2032 (USD MILLION) (MILLION UNITS)

- 6.1 Key trends
- 6.2 Analog lowpass filters
- 6.3 Digital lowpass filters

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY FREQUENCY, 2021-2032 (USD MILLION) (MILLION UNITS)

- 7.1 Key trends
- 7.2 Low frequency (below 1 kHz)
- 7.3 Medium frequency (1 kHz to 1 MHz)
- 7.4 High frequency (above 1 MHz)

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2032 (USD MILLION) (MILLION UNITS)

- 8.1 Key trends

- 8.2 Audio equipment
- 8.3 Radio frequency (RF) communications
- 8.4 Signal processing
- 8.5 Power supplies
- 8.6 Instrumentation and measurement
- 8.7 Automotive electronics
- 8.8 Medical devices
- 8.9 Others

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2032 (USD MILLION) (MILLION UNITS)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 UK
 - 9.3.2 Germany
 - 9.3.3 France
 - 9.3.4 Italy
 - 9.3.5 Spain
 - 9.3.6 Russia
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 India
 - 9.4.3 Japan
 - 9.4.4 South Korea
 - 9.4.5 Australia
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
- 9.6 MEA
 - 9.6.1 South Africa
 - 9.6.2 Saudi Arabia
 - 9.6.3 UAE

CHAPTER 10 COMPANY PROFILES

- 10.1 Abracon, LLC
- 10.2 Analog Devices, Inc.
- 10.3 Anatech Electronics, Inc.
- 10.4 API Technologies Corp.
- 10.5 AVX Corporation
- 10.6 Broadcom Inc.
- 10.7 Crystek Corporation
- 10.8 CTS Corporation
- 10.9 Infineon Technologies AG
- 10.10 Johanson Technology, Inc.
- 10.11 KEMET Corporation (Yageo Corporation)
- 10.12 Knowles Corporation
- 10.13 Mini-Circuits
- 10.14 Murata Manufacturing Co., Ltd.
- 10.15 NXP Semiconductors N.V.
- 10.16 ON Semiconductor Corporation
- 10.17 Qorvo, Inc.
- 10.18 Renesas Electronics
- 10.19 Skyworks Solutions, Inc.
- 10.20 STMicroelectronics
- 10.21 TDK Corporation
- 10.22 Texas Instruments Inc.

I would like to order

Product name: Lowpass Filters Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

Product link: <https://marketpublishers.com/r/L79AB8BA14F1EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/L79AB8BA14F1EN.html>