

Electronic Filtration Market by Type (Gas Filter, Liquid Filter, Air Filter), Filter Material, Filtration Technologies, Application, End-use Industry (Consumer Electronics, Industrial Electronics, Semiconductors), and Region - Global Forecast to 2028

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Abstracts

The global electronics filtration market size is estimated to be USD 4.0 billion in 2023 and is projected to reach USD 6.0 billion in 2028 at a CAGR of 8.5% during the forecast period. The market growth is driven by the increased demand for semiconductors, propelled by the surge in electronic consumption across diverse sectors such as consumer goods, industrial electronics, and artificial intelligence, which serves as a pivotal catalyst for the electronics filtration market.

“By Product Type, air filters accounted for the highest CAGR during the forecast period.”

The growth of air filters in electronics filtration is propelled by the imperative for clean air in sensitive manufacturing processes. HEPA and ULPA filters excel in removing particles, ensuring a sterile environment critical for semiconductor fabrication. Stringent industry standards, regulatory compliance, and the pursuit of enhanced product reliability contribute to the escalating adoption of advanced air filtration technologies in the microelectronics sector.

“By application, wet etching & cleaning accounted for the second highest CAGR during the forecast period.”

The expansion of wet etching and cleaning processes in microelectronics filtration is driven by the need for precision in semiconductor manufacturing. Wet processes, including etching and cleaning, demand ultra-clean environments. Filtration methods like chemical filters and point-of-use filters are crucial in removing impurities from etching and cleaning solutions. These filters prevent particle contamination, ensuring the integrity of microelectronic components. The growth of wet processes in microelectronics underscores the pivotal role of filtration technologies in maintaining the stringent cleanliness standards required for advanced semiconductor fabrication.

“By filtration technology, mechanical technology accounted for the second highest CAGR during the forecast period.”

The rise of mechanical filtration in the electronics industry is propelled by its effectiveness in capturing airborne particles and ensuring air quality. With electronic components becoming more susceptible to contamination, the significance of mechanical filters like HEPA, and ULPA cannot be overstated in eliminating microscopic particles. With ongoing technological advancements and the continual miniaturization of devices, the role of mechanical filtration becomes increasingly critical in ensuring the precision and reliability of electronic components.

“By filter material, PES accounted for the highest CAGR during the forecast period.”

Polyethersulfone (PES) filter material is widely employed in semiconductor filtration due to its excellent chemical resistance, thermal stability, and low protein binding properties. PES filters provide efficient and reliable removal of contaminants, ensuring the purity of critical processes in semiconductor manufacturing. PES compatibility with a variety of chemicals and resistance to hydrolysis makes PES filters suitable for diverse applications in the semiconductor industry, where stringent filtration requirements are essential to produce high-quality electronic components.

“By End Use Industry, industrial electronics accounted for the fastest growing market during the forecast period.”

The growth of industrial electronics as an end-use sector in electronics filtration is propelled by the increasing integration of advanced electronics in industrial processes. Industries embrace automation, IoT, and smart technologies; pharma demands precise and reliable semiconductor components. Stringent quality standards, the expansion of Industry 4.0, and the continuous evolution of industrial electronics contribute to the rising demand for semiconductor filtration. This sector's growth underscores the pivotal

role of filtration in sustaining the integrity and performance of electronic components in industrial applications.

“Asia Pacific is projected to account for the highest CAGR in the electronics filtration market during the forecast period.”

The Asia Pacific region is witnessing the most rapid growth in the electronics filtration market. Escalating demand for electronic products, coupled with rapid industrial expansion, drives the need for stringent contamination control in manufacturing processes. Government initiatives supporting technological advancements, coupled with a flourishing electronics market, contribute to the expansion of semiconductor filtration. As China and Taiwan solidify their positions in the electronic filtration market, investments in cutting-edge filtration technologies become pivotal to sustaining high-quality semiconductor production.

By Company Type: Tier 1: 30%, Tier 2: 35%, and Tier 3: 35%

By Designation: C-level Executives: 40%, Directors: 40%, and Others: 20%

By Region: North America: 10%, Europe: 20%, Asia Pacific: 50%, South America: 10%, and Middle East & Africa: 10%

Companies Covered: Pall Corporation (US), Entegris, Inc. (US), 3M (US), Cobetter Filtration (China), Parker Hannifin (US), Donaldson Company, inc. (US), Mott Corporation (US), Porvair PLC (UK), Mann+Hummel (Germany) are some of the established players in the electronics filtration market.

Research Coverage

The market study covers the Electronics filtration market across various segments. It aims to estimate the market size and the growth potential of this market across different segments based on application, filter material, filtration technology, type, end-use industry, and region. The study also includes an in-depth competitive analysis of key players in the market, their company profiles, key observations related to their products and business offerings, recent developments undertaken by them, and key growth strategies adopted by them to improve their position in the electronics filtration market.

Key Benefits of Buying the Report

The report is expected to help the market leaders/new entrants in this market share the closest approximations of the revenue numbers of the overall electronics filtration market and its segments and sub-segments. This report is projected to help stakeholders understand the competitive landscape of the market, gain insights to improve the position of their businesses, and plan suitable go-to-market strategies.

The report provides insights on the following pointers:

Analysis of drivers (growing demand for semiconductors in various end-use industries, increasing demand for ultra-pure water in microelectronics), **restraints** (high costs associated with advanced filtration solutions), **opportunities** (usage of nanocomposite membranes) and **challenges** (lack of standardized filtration solutions due to diverse nature of electronic components) influencing the growth of electronics filtration market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and mergers & acquisitions in the electronics filtration market.

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for electronics filtration market across regions.

Market Diversification: Exhaustive information about new products % services, untapped geographies, recent developments, and investments in the electronics filtration market

Market Penetration: Comprehensive information on the electronics filtration market offered by top players in the global market.

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the electronics filtration

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