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PCs and Laptops MLCC - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

https://marketpublishers.com/r/P2181AC35049EN.html
Date: July 2024
Pages: 225
Price: US$ 4,750.00 (Single User License)
ID: P2181AC35049EN

Abstracts

The PCs and Laptops MLCC Market size is estimated at 0.84 billion USD in 2024, and is expected to reach 2.19 billion USD by 2029, growing at a CAGR of 20.95% during the forecast period (2024-2029).

Fueling advancements expected across varied case sizes in the global PCs and laptops MLCC market

The case size segment within the global PCs and laptops MLCC market constitutes a vital dimension of electronic device advancement. It encompasses a spectrum of case sizes, each intricately interwoven with the evolving trends shaping the computing world. The 0 603 case size resonates with the PC market's ups and downs, mirroring remote work's surge and budget constraints' impact on MLCC demand.

The 0 805 case size demonstrates versatile growth amidst PC sales surges, as supply chain challenges influence adaptive strategies and extend to electronic devices and gaming. Apple's footprint reverberates in the 0 806 case size, intertwining tech giants' influence with MLCC demand trends.

The 1 206 case size showcases stability amid shifting PC sales, reflecting the interplay of supply, demand dynamics, and steady growth. The essential role of 1 210 case size MLCCs in powering performance and stability aligns with Apple's PC influence, accentuating the demand for enhanced multimedia and unwavering functionality. Anchoring stability, the 1 210 case size MLCCs respond to shifts in PC market

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dynamics, reflecting the influence of industry giants. The steady growth narrates the demand for enhanced multimedia experiences and unwavering system stability.

The "others" case sizes form a versatile domain of capacitance solutions, responding to advanced display tech and AI-driven optimizations. This alignment between advanced display technologies and capacitor solutions underscores the cohesive innovation occurring across various facets of the computing ecosystem.

The impact of Asia-Pacific, Europe, North America, and Rest of the World on the global PCs and laptops MLCC market

The Asia-Pacific, Europe, North America, and the Rest of the World present unique dynamics that impact the global PCs and laptops MLCC market. Shifts in PC demand, technological advancements, and evolving consumer behaviors collectively shape the MLCC landscape across these regions.

The Asia-Pacific region showcases diverse market dynamics driven by various economies and technological advancements. Despite a broader PC market slowdown and production disruptions, key technology hubs like China, Japan, South Korea, and Taiwan remain pivotal players in the global tech ecosystem. These hubs fuel the demand for advanced components, including MLCCs, creating opportunities for catering to different market segments.

Europe's strong emphasis on quality and precision aligns with its commitment to high-performance MLCCs, driving increased demand from the thriving PCs and laptops sector. Despite challenges, the enduring adoption of PCs, especially in remote work and hybrid settings, bodes well for sustained MLCC demand.

North America, comprising the United States, Mexico, and Canada, historically dominates the PCs and laptops market. While consistently maintaining a strong presence, a decline in PC shipments in 2022 due to economic uncertainties affected the demand for MLCCs. Consumer spending shifts and decreased demand for electronic devices have direct implications for MLCC components.

The Rest of the World witnessed a significant 13.0% Y-o-Y decline in the personal computing devices market in Q1 2023. Economic challenges and evolving consumer preferences, specifically in the MEA region, influence the global PCs and laptops MLCC

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market, affecting the required quantity and specifications of MLCCs.

Global PCs and Laptops MLCC Market Trends

Rise in adoption of laptops in educational institutions is propelling the market

The demand for MLCCs in laptops has witnessed significant growth due to their essential role in providing high-frequency decoupling and filtering for efficient and clean power supply. This is crucial as laptops rely on precise voltage and current levels to ensure optimal operation of various components.

The laptops experienced a substantial increase, with shipments rising by 19.6% from 222.5 million units in 2020 to 276.8 million units in 2021. The surge in laptop demand was initially driven by the widespread adoption of remote work and virtual communication during the COVID-19 pandemic. This has led to an increased need for MLCCs in these devices. However, as employees gradually transition back to physical office spaces, the demand for laptops has somewhat subsided. The evolving capabilities of smartphones and tablets, coupled with advancements in mobile applications and cloud-based services, have made these devices more suitable for specific tasks, diminishing the overall necessity for laptops. Furthermore, the demand for laptops is being influenced by the growing need for versatile laptops and the widespread availability of high-speed internet. This development is anticipated to occur due to various factors, including the rise in consumer purchasing power and the increasing preference for gaming laptops, especially among the millennial demographic.

The demand for laptops persists due to the enduring effects of the COVID-19 pandemic, with many individuals learning from home. This sustained demand directly translates into an ongoing requirement for MLCCs in laptop manufacturing. MLCCs play a vital role in guaranteeing the dependable and efficient performance of laptops, making them an indispensable component in meeting the ongoing market demand for these devices.

Increasing demand for laptops stagnates the market

The electrodes in an MLCC serve as a stable source of electricity for electronics like PCs. To keep up with the market's current trend for improved performance, miniaturization, and compact laptop PC designs and manufacture products that can withstand the industry's changing demands, MLCC manufacturers are making high-

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temperature and high-capacitance MLCC the utmost importance.

PC's shipments declined by 16%, from 341.73 million units in 2021 to 286.2 million in 2022. The demand for MLCCs in PCs has declined due to the unfavorable acoustic noise they produce within the battery lines, specifically on the primary side of DC-DC converters. The presence of capacitive howling strategically placed close to PCs adversely affects the user experience, creating a negative impact. Consumers are actively seeking PCs that offer a quieter and more pleasant user experience. This growing preference for noise-free devices has contributed to the decreasing demand for MLCCs in laptops affected by disruptive howling noises.

The decline in MLCC demand for PCs is primarily due to the prevalent ownership of relatively new PCs purchased during the pandemic, resulting in a lack of affordability and reduced consumer motivation to invest in new PC purchases. The challenging economic climate has resulted in reduced business PC spending in the EMEA region as companies adopt cost management strategies by cutting down on PC budgets. This factor has led to a significant drop in PC demand, reaching its lowest level in years, consequently impacting the demand for MLCCs as a vital component in PC manufacturing and resulting in a decline in MLCC sales for PC applications.

PCs and Laptops MLCC Industry Overview

The PCs and Laptops MLCC Market is moderately consolidated, with the top five companies occupying 51.77%. The major players in this market are Kyocera AVX Components Corporation (Kyocera Corporation), Murata Manufacturing Co., Ltd, Samsung Electro-Mechanics, TDK Corporation and Walsin Technology Corporation (sorted alphabetically).

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