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Global MLCC for AI Server and Automotive Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MLCC for AI Server and Automotive market size is expected to reach $ 17011 million by 2032, rising at a market growth of 19.1% CAGR during the forecast period (2026-2032).
MLCC for AI Server and Automotive is a multi-layer ceramic capacitor used for AI servers and automotive electronics. MLCC (Multi Layer Ceramic Capacitor) is a critical electronic component composed of alternating layers of ceramic dielectric and metal electrodes, characterized by high capacity, small volume, low ESR (equivalent series resistance), and high reliability. In AI servers, MLCC is used to stabilize high-frequency signals, filter and store energy, ensuring efficient operation of AI computing; In the field of automotive electronics, MLCC is used for key modules such as power systems, ADAS (Advanced Driver Assistance Systems), BMS (Battery Management Systems), etc., to enhance the intelligence and safety of automobiles.
The MLCC for AI Server and Automotive markets are currently in a structural growth cycle, with the global competitive landscape characterized by 'Japan and South Korea dominating the high-end market, while domestic manufacturers are accelerating their breakthroughs.' Core demand and technological barriers jointly define market trends. From the demand side, the leap in computing density of AI servers has led to an exponential increase in MLCC usage. A single high-performance AI server can use tens of thousands of MLCCs, and a single rack can use hundreds of thousands. Low-voltage, high-capacitance, low ESR, and miniaturized high-end products have become core demands. In the automotive sector, the increasing penetration of new energy vehicles and autonomous driving has led to a doubling of MLCC usage per vehicle compared to traditional gasoline vehicles, resulting in a surge in demand for high-temperature resistant, high-reliability automotive-grade products (such as X8R/X9R materials).
In terms of the competitive landscape, leading Japanese and South Korean

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manufacturers hold an absolute advantage. Murata and Samsung Electro-Mechanics dominate the high-end MLCC market for AI servers, holding a combined market share of over 80%. Murata's 0402-size high-capacity products and Samsung's cost-effective mid-range solutions cater to different computing power scenarios. Taiyo Yuden, TDK, and Kyocera (AVX) have built technological barriers in the high-specification automotive product sector, with their automotive-grade products achieving the highest level of AEC-Q200 certification, deeply integrated with major global automakers.

Overall, driven by both AI and automotive applications, the MLCC market has shifted from a traditional cyclical commodity to a structurally growing sector. Future competition will focus on high-end material R&D, capacity expansion, and supply chain stability. Companies with technological breakthroughs and large-scale production capacity are expected to occupy a more important position in the global division of labor. The domestic substitution process of local manufacturers will be deeply intertwined with global computing power upgrades and the wave of automotive intelligence.

This report studies the global MLCC for AI Server and Automotive production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MLCC for AI Server and Automotive and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of MLCC for AI Server and Automotive that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MLCC for AI Server and Automotive total production and demand, 2021-2032, (Million Pcs)

Global MLCC for AI Server and Automotive total production value, 2021-2032, (USD Million)

Global MLCC for AI Server and Automotive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs), (based on production site)

Global MLCC for AI Server and Automotive consumption by region & country, CAGR, 2021-2032 & (Million Pcs)

U.S. VS China: MLCC for AI Server and Automotive domestic production, consumption, key domestic manufacturers and share

Global MLCC for AI Server and Automotive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Pcs)

Global MLCC for AI Server and Automotive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

Global MLCC for AI Server and Automotive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

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This report profiles key players in the global MLCC for AI Server and Automotive market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Murata, TDK, Samsung (SEMCO), Kyocera (AVX), Taiyo Yuden, Walsin Technology, Darfon, Fenghua Electronics, Yageo, Eyang, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.
Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World MLCC for AI Server and Automotive market
Detailed Segmentation:
Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Pcs) and average price (US$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.
Global MLCC for AI Server and Automotive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MLCC for AI Server and Automotive Market, Segmentation by Type:

MLCC for AI Servers

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MLCC for Automotive

Global MLCC for AI Server and Automotive Market, Segmentation by Application:

AI Servers

Automotive

Companies Profiled:

Murata

TDK

Samsung (SEMCO)

Kyocera (AVX)

Taiyo Yuden

Walsin Technology

Darfon

Fenghua Electronics

Yageo

Eyang

Holy Stone

Nippon Chemi-Con

Key Questions Answered:

1. How big is the global MLCC for AI Server and Automotive market?

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2. What is the demand of the global MLCC for AI Server and Automotive market?
3. What is the year over year growth of the global MLCC for AI Server and Automotive market?
4. What is the production and production value of the global MLCC for AI Server and Automotive market?
5. Who are the key producers in the global MLCC for AI Server and Automotive market?
6. What are the growth factors driving the market demand?

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