

Global High Capacitance MLCC for AI Server Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High Capacitance MLCC for AI Server market size was valued at US\$ 1343 million in 2025 and is forecast to a readjusted size of US\$ 5354 million by 2032 with a CAGR of 16.3% during review period.

In 2025, global High Capacitance MLCC for AI Server production reached approximately 14.66 billion pieces with average price of 0.089USD/PCS.

High-capacitance multilayer ceramic chip capacitors for AI servers are surface-mount ceramic capacitors installed in AI server motherboards, GPU or AI accelerator boards, memory boards, network interface cards, power modules, and server power supply units. For market-research purposes, the category can generally include MLCCs with nominal capacitance of 1 μ F or above, although package size, rated voltage, and effective capacitance under actual operating voltage should also be considered. These products are manufactured by alternately stacking ultra-thin ceramic dielectric layers and nickel internal electrodes, followed by lamination and co-firing. Common temperature characteristics include X5R, X6S, and X7R.

Their principal functions include power decoupling, bypassing, filtering, output smoothing, and transient-current support. When GPUs, CPUs, application-specific integrated circuits, and high-speed memory devices experience rapid load changes, high-capacitance MLCCs positioned close to the chips release stored charge, suppress voltage fluctuations, and reduce power-line noise. Compared with products used in conventional servers, AI-server MLCCs place greater emphasis on compact size, high capacitance, low equivalent series resistance, low equivalent series inductance, thermal

stability, limited capacitance loss under DC bias, and high reliability. Representative products now include 47 μ F MLCCs in 0402-inch cases and 100 μ F MLCCs in 0603-inch cases.

The upstream segment mainly includes nanoscale barium titanate ceramic powders, dielectric additives, nickel and copper electrode powders, binders, dispersants, solvents, release films, plating materials, carrier tapes, and packaging materials. Major production equipment includes precision tape-casting machines, screen-printing systems, stacking and laminating equipment, cutting machines, binder-removal furnaces, sintering furnaces, plating lines, and automated inspection systems. Ceramic-powder purity, nickel-powder fineness, and equipment precision directly affect dielectric-layer thickness, internal-electrode continuity, volumetric capacitance, and mass-production yields.

The midstream segment covers high-capacitance MLCC manufacturing. Major processes include ceramic-slurry preparation, ultra-thin dielectric-film casting, internal-electrode printing, multilayer stacking, lamination, cutting, binder removal, co-firing, terminal formation, electroplating, testing, and sorting. Key technological barriers for AI-server products include dielectric-layer thinning, higher layer counts, uniform sintering shrinkage, internal-defect control, DC-bias performance, high-temperature stability, and low-impedance design. Suppliers must also optimize MLCC selection and parallel configurations according to the voltage, frequency, temperature, and space limitations of computing, networking, and power assemblies.

Downstream customers include AI server manufacturers, GPU and accelerator-board suppliers, server-motherboard manufacturers, networking-equipment companies, power-module producers, server power supply manufacturers, and electronics manufacturing service providers. Application positions include accelerator power-delivery networks, CPU and memory power rails, high-speed network interfaces, 12 V or 48 V input DC-DC modules, intermediate bus converters, and server power supply outputs. Products enter the supply chain through direct qualification programs, authorized agents, and electronic-component distributors. TDK and Samsung Electro-Mechanics have introduced dedicated MLCC solutions for AI-server computing, networking, and power systems.

AI servers represent a major incremental market for high-capacitance MLCCs. Compared with general-purpose servers, AI servers integrate more GPUs, dedicated accelerators, high-bandwidth memory devices, and high-speed networking chips. They therefore contain more circuit boards and require denser power-decoupling and filtering

networks on each board. Samsung Electro-Mechanics states that an AI server may use approximately 10 to 15 times as many MLCCs as a general-purpose server. Market expansion is consequently driven by both increasing AI-server shipments and higher capacitor content per server.

Higher AI-chip power consumption and rapidly changing workloads are also shifting the product mix toward ultra-high-capacitance, compact, and low-impedance products. Multiple 0402- or 0603-size high-capacitance MLCCs can replace larger capacitors within a limited PCB area, reducing mounting space and equivalent series inductance while allowing capacitors to be positioned closer to processors. Higher internal temperatures and power density will also increase demand for X6S and X7R products, improved DC-bias performance, and greater reliability. As a result, revenue growth for advanced AI-server MLCCs is expected to exceed overall unit-volume growth.

Changes in server power architecture will further expand the addressable market. As AI-server power consumption rises, 48 V power systems are increasingly used for rack and board-level power distribution, with intermediate bus converters and point-of-load modules converting the voltage to the low levels required by processors. This transition increases demand for high-capacitance MLCCs rated at approximately 100 V on the 48 V input side, while expanding the use of lower-voltage, high-capacitance products around GPU and CPU output rails. The future adoption of 800 VDC data-center power distribution will also increase demand for high-voltage and high-reliability passive components in server power supplies and front-end conversion systems. However, board-level high-capacitance MLCC demand will remain concentrated primarily in 48 V and lower-voltage power networks.

High-capacitance MLCCs may also replace or reduce the number of polymer capacitors used at certain DC-DC converter outputs because of their low ESR, low ESL, compact dimensions, and strong high-frequency noise-suppression performance. Nevertheless, AI servers will continue to use combinations of ceramic, polymer, aluminum electrolytic, and film capacitors. The strongest growth opportunities for high-capacitance MLCCs will therefore be in near-chip decoupling, localized filtering, compact power modules, and space-constrained high-frequency circuits rather than the complete replacement of other capacitor technologies.

Report Scope

This report is a detailed and comprehensive analysis for global High Capacitance MLCC for AI Server market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High Capacitance MLCC for AI Server market size and forecasts, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global High Capacitance MLCC for AI Server market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global High Capacitance MLCC for AI Server market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global High Capacitance MLCC for AI Server market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Pcs), and ASP (US\$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High Capacitance MLCC for AI Server

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High Capacitance MLCC for AI Server market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Murata, Samsung Electro-Mechanics, Taiyo Yuden, Samwha, Kyocera, Walsin, Darfon, TDK, Fenghua, Yageo,

etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High Capacitance MLCC for AI Server market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

10-20?F

20-50?F

More than 50?F

Market segment by Size

Small Sizes: 0201?0603

Medium Sizes: 0805?1210

Large Sizes: ?1812

Market segment by Dielectric Materials

High-Capacitance X5R MLCCs

High-Capacitance X7R MLCCs

Others

Market segment by Application

AI Accelerator Power Delivery

CPU, Memory and Motherboard Power

High-Speed Networking and Storage

DC-DC Converters and Power Modules

Server Power Supply Units

Others

Major players covered

Murata

Samsung Electro-Mechanics

Taiyo Yuden

Samwha

Kyocera

Walsin

Darfon

TDK

Fenghua

Yageo

Eyang (Tianli)

Holy Stone

Three-Circle

Nippon Chemi-Con

Viking Tech

NIC Components

Vishay Intertechnology

Fujian Torch Electron

Johanson Dielectrics

Knowles Precision Devices

Exxelia

Presidio Components

Guangdong Viiyong Electronic Technology Co., Ltd

Beijing Yuanliu Hongyuan Electronic Technology Co., Ltd

Zhuzhou Hongda Electronic Corp., Ltd.

Shenzhen Sunway Communication Co., Ltd

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe High Capacitance MLCC for AI Server product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Capacitance MLCC for AI Server, with price, sales quantity, revenue, and global market share of High Capacitance MLCC for AI Server from 2021 to 2026.

Chapter 3, the High Capacitance MLCC for AI Server competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Capacitance MLCC for AI Server breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and High Capacitance MLCC for AI Server market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High Capacitance MLCC for AI Server.

Chapter 14 and 15, to describe High Capacitance MLCC for AI Server sales channel, distributors, customers, research findings and conclusion.

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