

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

<https://marketpublishers.com/r/GD0BB243EEDEEN.html>

Date: August 2026

Pages: 109

Price: US\$ 3,480.00 (Single User License)

ID: GD0BB243EEDEEN

Abstracts

According to our (Global Info Research) latest study, the global MLCC for AI Servers market size was valued at US\$ 1698 million in 2025 and is forecast to a readjusted size of US\$ 6953 million by 2032 with a CAGR of 23.0% during review period.

In 2025, global MLCC for AI Servers production reached approximately 66,000 million units with an average price of USD \$0.025 per unit. This segment represents the application-qualified, higher-value portion of the broader multilayer ceramic capacitor industry rather than every MLCC installed in computing equipment. The products are mounted across GPU and CPU accelerator boards, memory and networking boards, power supply units and intermediate bus converters, where they stabilize rapidly changing power rails, reduce impedance and suppress electrical noise. Commercial supply is dominated by discrete surface-mount chips, supplemented by low-ESL reverse-geometry devices, three-terminal capacitors, high-voltage parts and metal-frame or stacked configurations. The segment is differentiated from generic high-capacitance MLCCs by official server, data-center or high-performance-computing qualification, and from polymer, electrolytic and silicon capacitors by its ceramic multilayer construction. Its independent research value comes from the combination of rapidly increasing component content per server, strict thermal and DC-bias requirements, qualification barriers and a supplier structure concentrated among established Japanese, Korean, Taiwanese and Chinese manufacturers.

MLCC for AI Servers should be treated as an application-qualified component segment positioned between the broad MLCC market and the AI server hardware supply chain. Its value is determined not only by nominal capacitance, voltage or package size, but also by effective capacitance under DC bias, thermal stability, low parasitic inductance,

ripple-current tolerance and evidence of adoption in server-class power architectures. The category therefore excludes generic consumer MLCCs that could technically be installed in computing devices but lack manufacturer-backed server or high-performance-computing positioning. 2) Demand conditions remain favorable because accelerator density, rack power and transient-current requirements are rising faster than conventional server specifications. New GPU and custom-ASIC platforms increasingly combine large numbers of processors, memory devices, switches and power-conversion stages, expanding both the number of decoupling points and the need for higher-value capacitors. Growth should remain strongest in compact high-capacitance products, X6S or X7R temperature characteristics, high-voltage power-stage devices and low-ESL structures located close to processors or conversion modules. 3) The present supply structure is led by established Japanese and Korean MLCC manufacturers, with Taiwanese and Chinese suppliers expanding their participation through high-capacitance, industrial-grade and server-oriented product families. Competition is not based solely on unit price. Layer thinning, dielectric formulation, electrode printing, sintering control, effective-capacitance performance, defect screening and stable mass production are important differentiators. Qualification cycles and the concentration of leading AI server customers favor suppliers with broad product portfolios, high-volume manufacturing capacity and close engineering relationships with board and power-system designers. 4) Product development is moving in two parallel directions. One direction replaces larger capacitors with smaller 0402-inch and 0603-inch products offering tens or hundreds of microfarads, enabling higher board density. The other uses three-terminal, reverse-geometry, embedded, metal-frame or stacked structures to reduce impedance, increase current capability or withstand mechanical and thermal stress. These developments can raise the value of MLCC content even when long-term price erosion continues in standard commodity specifications. Supply-chain localization and dual-sourcing policies may also create entry opportunities for regional manufacturers, although consistent quality and customer qualification remain substantial barriers. 5) The market should be analyzed through capacitance, rated voltage and package structure, while demand should be mapped separately across accelerator boards, CPU and memory boards, networking boards, server power supplies and intermediate bus converters. This framework captures the different volume and pricing profiles of board-level decoupling and power-conversion components. The segment occupies a strategically important position because MLCCs are inexpensive relative to the complete server but directly affect power integrity, reliability and achievable computing density. Future competitive advantage will depend on translating material and process capabilities into qualified products with stable effective capacitance, compact dimensions and dependable large-scale delivery.

This report is a detailed and comprehensive analysis for global MLCC for AI Servers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Capacitance Range 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 MLCC for AI Servers market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

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

Global MLCC for AI Servers market size and forecasts, by Capacitance Range and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global MLCC for AI Servers market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 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 MLCC for AI Servers

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 MLCC for AI Servers 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 Manufacturing Co., Ltd., Samsung

Electro-Mechanics Co., Ltd., TDK Corporation, TAIYO YUDEN CO., LTD., KYOCERA Corporation (KYOCERA AVX Components Corporation), Guangdong Fenghua Advanced Technology Holding Co., Ltd., Shenzhen Sunway Communication Co., Ltd., Holy Stone Enterprise Co., Ltd., YAGEO Corporation (KEMET Electronics), Walsin Technology Corporation, etc.

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

Market Segmentation

MLCC for AI Servers market is split by Capacitance Range and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Capacitance Range, 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 Capacitance Range

Below 1 μ F

1 μ F to Below 47 μ F

47 μ F and Above

Market segment by Rated Voltage

Above 6.3 V to 25 V

Above 25 V to 100 V

Above 100 V

Market segment by Terminal and Package

Standard Two-Terminal Chip

Reverse Geometry Low-ESL Chip

Three-Terminal Chip

Metal-Frame and Stacked MLCC

Embedded MLCC

Others

Market segment by Application

GPU and Accelerator Boards

CPU and Memory Boards

Network and Switch Boards

Server Power Supply Units

Others

Major players covered

Murata Manufacturing Co., Ltd.

Samsung Electro-Mechanics Co., Ltd.

TDK Corporation

TAIYO YUDEN CO., LTD.

KYOCERA Corporation (KYOCERA AVX Components Corporation)

Guangdong Fenghua Advanced Technology Holding Co., Ltd.

Shenzhen Sunway Communication Co., Ltd.

Holy Stone Enterprise Co., Ltd.

YAGEO Corporation (KEMET Electronics)

Walsin Technology Corporation

Darfon Electronics Corp.

Tianli Holdings Group Limited (Shenzhen Eyang Technology Development Co., Ltd.)

Chaozhou Three-Circle (Group) Co., Ltd.

Samwha Capacitor Co., Ltd.

Knowles Corporation (Knowles Precision Devices)

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)

The content of the study subjects, includes a total of 15 chapters:

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

Chapter 2, to profile the top manufacturers of MLCC for AI Servers, with price, sales

quantity, revenue, and global market share of MLCC for AI Servers from 2021 to 2026.

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

Chapter 4, the MLCC for AI Servers 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 Capacitance Range and by Application, with sales market share and growth rate by Capacitance Range, 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 MLCC for AI Servers market forecast, by regions, by Capacitance Range, 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 MLCC for AI Servers.

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

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