

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

<https://marketpublishers.com/r/G5F29E1FD1A5EN.html>

Date: August 2026

Pages: 136

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

ID: G5F29E1FD1A5EN

Abstracts

According to our (Global Info Research) latest study, the global AI Server MLCC market size was valued at US\$ 884 million in 2025 and is forecast to a readjusted size of US\$ 8779 million by 2032 with a CAGR of 38.7% during review period.

In 2025, global AI Server MLCC production reached approximately 10744 million units, with an average global market price of around US\$0.08 per unit.

AI server MLCCs are high-performance multilayer ceramic capacitors used in AI server motherboards, GPU/ASIC accelerator cards, CPU/GPU power modules, 48V power architectures, DDR/HBM memory power rails, high-speed networking modules, and server power supply units. Their main functions include energy storage, decoupling, filtering, voltage stabilization, ripple suppression, high-frequency noise reduction, and transient current compensation when high-power chips such as GPUs and CPUs experience fast load changes. Compared with standard consumer-grade MLCCs, AI server MLCCs require smaller size, higher capacitance, higher voltage rating, lower ESR, lower ESL, better thermal resistance, stronger reliability, and improved mechanical stress tolerance. They are mainly placed in PSU output/input stages, VRMs, 48V-to-12V intermediate bus converters, low-voltage core power rails, and near-chip decoupling areas.

The upstream supply chain of AI server MLCCs includes high-purity barium titanate, strontium titanate, titanium dioxide, barium salts, nickel powder, copper/silver/palladium electrode paste, termination materials, organic binders, ceramic powder dispersion materials, nickel/tin plating materials, and production equipment for tape casting, printing, stacking, sintering, and testing. Representative raw material suppliers include Sakai Chemical for barium titanate and dielectric ceramic powders, Nippon Chemical

Industrial for barium titanate dielectric materials, Toho Titanium for high-purity nickel powder used in MLCC internal electrodes, and JFE Mineral for ultrafine nickel powder. Midstream manufacturers include Murata, Samsung Electro-Mechanics, TDK, Taiyo Yuden, YAGEO, Walsin, Kyocera AVX, Fenghua Advanced Technology, and Chaozhou Three-Circle Group. Downstream applications cover AI servers, data centers, GPU accelerator cards, server power supplies, cloud computing infrastructure, and high-speed networking equipment, with representative companies including NVIDIA, AMD, Intel, Broadcom, Marvell, Dell Technologies, HPE, Supermicro, Lenovo, Inspur, Foxconn, Quanta, Wiyynn, AWS, Microsoft Azure, Google Cloud, Meta, Oracle, Alibaba Cloud, and Tencent Cloud.

The AI server MLCC market is shifting from a general passive component category to a critical high-reliability component segment for power delivery and high-performance computing. Current demand is mainly driven by GPU servers, AI accelerator cards, data center power architecture upgrades, and cloud infrastructure expansion. Product development is moving toward miniaturization, higher capacitance, higher voltage ratings, lower ESL, better heat resistance, soft termination, and embedded structures. Key growth drivers include rising AI computing demand, higher server power consumption, wider adoption of 48V power systems, increasing near-chip decoupling requirements for GPUs and ASICs, and customers' stronger focus on long-term supply security. Main challenges include strict requirements for dielectric powders and nickel materials, long equipment lead times, lengthy customer qualification cycles, weak demand in some consumer electronics segments, and potential pressure on server system costs from component price increases. Overall, AI server MLCCs represent a high-growth, high-barrier, and higher-margin niche within the broader MLCC industry, although near-term supply may remain structurally tight.

This report is a detailed and comprehensive analysis for global AI Server MLCC 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 AI Server MLCC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

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

Global AI Server MLCC 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 AI Server MLCC

- 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 AI Server MLCC 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, TDK Corp, Kyocera, Taiyo Yuden, Nippon Chemi-Con, Vishay, Samsung Electro-Mechanics, MARUWA, Samwha Capacitor, AVATEC, etc.

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

Market Segmentation

AI Server MLCC 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

Standard SMD mounting

Embedded MLCC

Market segment by Capacity

1pF-100pF

100pF-10nF

10nF-100nF

0.1?F-1?F

1?F-10?F

10?F-47?F

47?F-100?F

100?F-220?F

?220?F

Market segment by Voltage

2.5V-6.3V

10V-16V

25V-50V

63V-100V

250V-630V

1000V-1250V

?1250V

Market segment by Application

Servers

Data Centers

Acceleration Cards

Cloud Computing

Others

Major players covered

Murata

TDK Corp

Kyocera

Taiyo Yuden

Nippon Chemi-Con

Vishay

Samsung Electro-Mechanics

MARUWA

Samwha Capacitor

AVATEC

Amotech

Knowles

Exxelia

Yageo

Walsin Technology

Holy Stone Enterprise

Fenghua Advanced Technology

Three-Circle Group

Sinocera

Viiyong

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 AI Server MLCC product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the AI Server MLCC 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 AI Server MLCC 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 AI Server MLCC.

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

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