

Global AI Server MLCC Market Growth 2026-2032

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Abstracts

The global AI Server MLCC market size is predicted to grow from US\$ 841 million in 2025 to US\$ 9255 million in 2032; it is expected to grow at a CAGR of 41.1% from 2026 to 2032.

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.

LP Information, Inc. (LPI)'s newest research report, the "AI Server MLCC Industry Forecast" looks at past sales and reviews total world AI Server MLCC sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Server MLCC sales for 2026 through 2032. With AI Server MLCC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Server MLCC industry.

This Insight Report provides a comprehensive analysis of the global AI Server MLCC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Server MLCC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Server MLCC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Server MLCC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Server MLCC.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Server MLCC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Standard SMD mounting

Embedded MLCC

Segmentation 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

Segmentation by Voltage:

2.5V-6.3V

10V-16V

25V-50V

63V-100V

250V-630V

1000V-1250V

?1250V

Segmentation by Application:

Servers

Data Centers

Acceleration Cards

Cloud Computing

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Server MLCC market?

What factors are driving AI Server MLCC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI Server MLCC market opportunities vary by end market size?

How does AI Server MLCC break out by Type, by Application?

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