

Global MLCC Ceramic Powder for AI Servers 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 MLCC Ceramic Powder for AI Servers market size was valued at US\$ 68.09 million in 2025 and is forecast to a readjusted size of US\$ 256 million by 2032 with a CAGR of 21.0% during review period.

MLCC ceramic powder for AI servers refers to high-purity electronic ceramic powder materials specifically used in the manufacture of multilayer ceramic capacitors (MLCCs) for AI servers, high-performance computing (HPC), data center servers, GPU accelerator cards, AI training servers, and high-speed network equipment. Its core components are typically barium titanate (BaTiO₃) and related dielectric ceramic materials, prepared through nanoscale particle control, doping modification, and high-purity processes. It provides the dielectric layer material for MLCCs and is a key fundamental material determining capacitance, reliability, withstand voltage, and high-frequency characteristics.

The upstream of the industry chain mainly includes basic chemical raw materials such as barium carbonate, titanium dioxide, strontium oxide, yttrium oxide, and magnesium oxide, as well as rare earth doped materials. It also involves suppliers of high-purity oxides, nanopowder preparation equipment, ball milling equipment, and sintering equipment. The midstream is the MLCC ceramic powder manufacturing segment, with nano-scale barium titanate (BaTiO₃) powder and dielectric ceramic material manufacturers at its core. High-purity, ultrafine, and high-dielectric-constant ceramic powders are prepared through co-precipitation, hydrothermal, or solid-state methods. The downstream primarily consists of MLCC manufacturers, whose high-capacitance, high-reliability MLCCs are further applied to AI server motherboards, GPU accelerator cards, HBM storage modules, power management systems, high-speed switches, and

data center equipment.

In 2025, global sales of MLCC ceramic powder for AI servers reached 4,500 tons, with a production capacity of approximately 6,300 tons, an average selling price of US\$14,705 per ton, and an average gross profit margin of 40%-50%.

Major global economies have all included advanced electronic materials in their strategic support plans. China, Japan, South Korea, and the United States continue to promote the localization of the semiconductor, passive component, and advanced electronic materials supply chains. With the rapid growth of investment in AI infrastructure, countries are increasingly emphasizing the security of the supply of high-end MLCCs and key raw materials. At the same time, the ever-increasing reliability requirements of electronic components in high-performance servers and data centers are also driving MLCC material companies to strengthen R&D investment and expand production capacity.

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

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

Global MLCC Ceramic Powder for AI Servers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global MLCC Ceramic Powder for AI Servers market shares of main players, shipments

in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Ceramic Powder 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 Ceramic Powder 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 Sakai Chemical, Vibrantz Technologies, Nippon Chemical, Sinocera, Fuji Titanium, Kyoritsu, Toho, PDC, Murata, CCTC, etc.

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

Market Segmentation

MLCC Ceramic Powder for AI Servers 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

COG

X7R

Others

Market segment by Particle Size

≤100nm

100-120nm

120-200nm

Market segment by Purity

99.9%

99.99%

Market segment by Application

Servers

Data Centers

Acceleration Cards

Storage Systems

Others

Major players covered

Sakai Chemical

Vibrantz Technologies

Nippon Chemical

Sinocera

Fuji Titanium

Kyoritsu

Toho

PDC

Murata

CCTC

Samsung Electro-Mechanics

Taiyo Yuden

Hongming Electronics

Fenghua Advanced Technology

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 Ceramic Powder for AI Servers product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the MLCC Ceramic Powder 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 Ceramic Powder 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 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 MLCC Ceramic Powder for AI Servers 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 MLCC Ceramic Powder for AI Servers.

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

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