

Global MLCC Ceramic Powder for AI Servers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MLCC Ceramic Powder for AI Servers market size is expected to reach \$ 256 million by 2032, rising at a market growth of 21.0% CAGR during the forecast period (2026-2032).

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 (BaTiO_3) 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 (BaTiO_3) 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 studies the global MLCC Ceramic Powder for AI Servers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MLCC Ceramic Powder for AI Servers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of MLCC Ceramic Powder for AI Servers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MLCC Ceramic Powder for AI Servers total production and demand, 2021-2032, (Tons)

Global MLCC Ceramic Powder for AI Servers total production value, 2021-2032, (USD Million)

Global MLCC Ceramic Powder for AI Servers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global MLCC Ceramic Powder for AI Servers consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: MLCC Ceramic Powder for AI Servers domestic production, consumption, key domestic manufacturers and share

Global MLCC Ceramic Powder for AI Servers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global MLCC Ceramic Powder for AI Servers production by Type, production, value,

CAGR, 2021-2032, (USD Million) & (Tons)

Global MLCC Ceramic Powder for AI Servers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global MLCC Ceramic Powder for AI Servers market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World MLCC Ceramic Powder for AI Servers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global MLCC Ceramic Powder for AI Servers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MLCC Ceramic Powder for AI Servers Market, Segmentation by Type:

COG

X7R

Others

Global MLCC Ceramic Powder for AI Servers Market, Segmentation by Particle Size:

≤100nm

100-120nm

120-200nm

Global MLCC Ceramic Powder for AI Servers Market, Segmentation by Purity:

99.9%

99.99%

Global MLCC Ceramic Powder for AI Servers Market, Segmentation by Application:

Servers

Data Centers

Acceleration Cards

Storage Systems

Others

Companies Profiled:

Sakai Chemical

Vibrantz Technologies

Nippon Chemical

Sinocera

Fuji Titanium

Kyoritsu

Toho

PDC

Murata

CCTC

Samsung Electro-Mechanics

Taiyo Yuden

Hongming Electronics

Fenghua Advanced Technology

Key Questions Answered:

1. How big is the global MLCC Ceramic Powder for AI Servers market?
2. What is the demand of the global MLCC Ceramic Powder for AI Servers market?
3. What is the year over year growth of the global MLCC Ceramic Powder for AI Servers

market?

4. What is the production and production value of the global MLCC Ceramic Powder for AI Servers market?
5. Who are the key producers in the global MLCC Ceramic Powder for AI Servers market?
6. What are the growth factors driving the market demand?

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