

Global MLCC for Data Center Next-Gen High-Power Supply Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MLCC for Data Center Next-Gen High-Power Supply market size is expected to reach \$ 248 million by 2032, rising at a market growth of 14.3% CAGR during the forecast period (2026-2032).

In 2025, global MLCC for Data Center Next-Gen High-Power Supply production reached approximately 200 million units with an average price of USD \$0.46 per unit. The product is an application-qualified segment of high-voltage, low-loss Class 1 MLCCs used in AI-server and data-center power conversion circuits. Its value is generated at component level, mainly in LLC resonant tanks, LC resonant networks, switching-device snubbers, intermediate-bus converters, UPS power modules and high-power server PSUs. In market research terms, it should be separated from complete power supplies, UPS systems, servers, generic data-center infrastructure and ordinary motherboard decoupling capacitors. Typical products emphasize COG or NP0 stability, low ESR, high-frequency current capability, high voltage rating and reliability under compact power-density conditions. The segment is not yet a universally named standalone MLCC category, but it is commercially meaningful because AI power architectures increase demand for qualified high-voltage ceramic capacitors in resonant and fast-switching power stages.

1) MLCC for Data Center Next-Gen High-Power Supply is best understood as an application-defined slice of the high-voltage Class 1 MLCC market rather than a fully standardized catalog category. The same component families may also be sold into industrial power, telecom power, automotive power electronics or general resonant circuits, so the research boundary must combine electrical specification and application evidence. The target parts are not ordinary motherboard decoupling capacitors. They

are selected for resonant tanks, snubber networks and high-frequency power-conversion stages where capacitance stability, low dielectric loss, high voltage endurance and predictable behavior under temperature and DC bias are more important than maximum capacitance density. 2) Demand is being reshaped by AI-server power architecture. Higher accelerator power, denser racks, higher PSU wattage, intermediate-bus conversion and faster switching devices increase the need for compact capacitors that can operate in high-frequency and high-stress power circuits. LLC and LC resonant conversion creates direct demand for low-loss ceramic capacitors, while SiC and GaN switching stages increase snubber and high-frequency current requirements. However, the segment does not absorb the full value of data-center power systems. Film capacitors, electrolytic capacitors, polymer capacitors, magnetic components, power semiconductors and complete converter modules all occupy adjacent parts of the same power chain. 3) The current supplier structure is led by large Japanese, Korean, Taiwanese, US and Chinese MLCC manufacturers with high-voltage, Class 1 and specialty capacitor capabilities. Samsung Electro-Mechanics, TDK and Murata are important because they combine large MLCC manufacturing scale with server or data-center power relevance. YAGEO KEMET, Knowles Precision Devices, KYOCERA AVX, Vishay and Johanson Dielectrics provide high-voltage or specialty ceramic capacitor portfolios. Walsin, Holy Stone, Fenghua, VIYONG and Darfon support regional capacity, power-electronics supply and substitution demand. This creates a competitive field that is broader than a niche custom component market but narrower than the total MLCC industry. 4) Growth should be supported by AI infrastructure buildout, power-density escalation, more resonant power-conversion stages, higher voltage stress and increased qualification of ceramic capacitors for server power modules. At the same time, qualification cycles, conservative PSU design practice, film capacitor competition in high-energy positions, MLCC price pressure and architecture optimization will prevent unlimited growth. 5) The product has independent research value because it links the MLCC industry to a specific bottleneck in AI data-center power delivery. It is small compared with total MLCC demand, but its mix is richer, its ASP is higher than general commodity MLCCs, and its specification requirements can influence supplier positioning in high-reliability power electronics.

This report studies the global MLCC for Data Center Next-Gen High-Power Supply production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MLCC for Data Center Next-Gen High-Power Supply 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 for Data

Center Next-Gen High-Power Supply that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MLCC for Data Center Next-Gen High-Power Supply total production and demand, 2021-2032, (Million Units)

Global MLCC for Data Center Next-Gen High-Power Supply total production value, 2021-2032, (USD Million)

Global MLCC for Data Center Next-Gen High-Power Supply production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global MLCC for Data Center Next-Gen High-Power Supply consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: MLCC for Data Center Next-Gen High-Power Supply domestic production, consumption, key domestic manufacturers and share

Global MLCC for Data Center Next-Gen High-Power Supply production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global MLCC for Data Center Next-Gen High-Power Supply production by Voltage Rating Range, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global MLCC for Data Center Next-Gen High-Power Supply production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global MLCC for Data Center Next-Gen High-Power Supply 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 Samsung Electro-Mechanics Co., Ltd., TDK Corporation, Murata Manufacturing Co., Ltd., YAGEO Corporation (KEMET Electronics Corporation), Knowles Corporation (Knowles Precision Devices), Guangdong VIYONG Electronic Technology Co., Ltd., Guangdong Fenghua Advanced Technology Holding Co., Ltd., Walsin Technology Corporation (Prosperity Dielectrics Co., Ltd.), Holy Stone Enterprise Co., Ltd., KYOCERA Corporation (KYOCERA AVX Components Corporation), 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 for Data Center Next-Gen High-Power Supply

market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Voltage Rating Range, 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 for Data Center Next-Gen High-Power Supply Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MLCC for Data Center Next-Gen High-Power Supply Market, Segmentation by Voltage Rating Range:

250 V to 499 V

500 V to 999 V

1 kV to 3 kV

Above 3 kV

Global MLCC for Data Center Next-Gen High-Power Supply Market, Segmentation by Dielectric System:

COG Dielectric

NP0 Dielectric

U2J Dielectric

Others

Global MLCC for Data Center Next-Gen High-Power Supply Market, Segmentation by Termination Structure:

Standard Termination

Flexible Termination

Soft Termination

Stacked Termination

Others

Global MLCC for Data Center Next-Gen High-Power Supply Market, Segmentation by Application:

LLC Resonant Tank Circuits

Intermediate Bus Converters

High-Power Server PSUs

Data Center UPS Modules

Others

Companies Profiled:

Samsung Electro-Mechanics Co., Ltd.

TDK Corporation

Murata Manufacturing Co., Ltd.

YAGEO Corporation (KEMET Electronics Corporation)

Knowles Corporation (Knowles Precision Devices)

Guangdong VIIYONG Electronic Technology Co., Ltd.

Guangdong Fenghua Advanced Technology Holding Co., Ltd.

Walsin Technology Corporation (Prosperity Dielectrics Co., Ltd.)

Holy Stone Enterprise Co., Ltd.

KYOCERA Corporation (KYOCERA AVX Components Corporation)

Vishay Intertechnology, Inc.

Johanson Dielectrics, Inc.

Darfon Electronics Corp.

Key Questions Answered:

1. How big is the global MLCC for Data Center Next-Gen High-Power Supply market?
2. What is the demand of the global MLCC for Data Center Next-Gen High-Power Supply market?
3. What is the year over year growth of the global MLCC for Data Center Next-Gen High-Power Supply market?
4. What is the production and production value of the global MLCC for Data Center Next-

Gen High-Power Supply market?

5. Who are the key producers in the global MLCC for Data Center Next-Gen High-Power Supply market?

6. What are the growth factors driving the market demand?

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