

Global Polymer Aluminum Electrolytic Capacitor for AI Server Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G94CC7D0DDFBEN.html>

Date: August 2026

Pages: 168

Price: US\$ 4,480.00 (Single User License)

ID: G94CC7D0DDFBEN

Abstracts

The global Polymer Aluminum Electrolytic Capacitor for AI Server market size is expected to reach \$ 533 million by 2032, rising at a market growth of 15.1% CAGR during the forecast period (2026-2032).

In 2025, global Polymer Aluminum Electrolytic Capacitor for AI Server production reached approximately 580 million units with an average price of USD \$0.32 per unit. This product is a high density passive component rather than a server subsystem or power module. It sits on GPU accelerator boards, server motherboards and DC power conversion boards, where low ESR, high ripple current tolerance and stable capacitance support fast load changes from CPUs, GPUs and ASIC accelerators. The market boundary covers the capacitor body itself, including chip, can and leaded polymer aluminum formats qualified for dense power delivery. It does not include MLCCs, polymer tantalum capacitors, VRMs, PSUs, server boards or complete AI servers. Its independent research value comes from the rapid change in server power architecture, because small design shifts in accelerator boards can materially change capacitor mix, supplier qualification and unit demand.

Polymer aluminum electrolytic capacitors have become a focused component layer in AI server power design because accelerator power demand is rising faster than conventional server board practice can absorb. The product is not normally sold as an AI server only series, but AI server demand changes the qualification logic for existing SP-Cap, OS-CON, FPCAP, ECAS and similar conductive polymer aluminum lines. The research object should therefore be treated as a high performance component slice inside broader capacitor portfolios, with revenue attributed only to the capacitor itself and not to the server, accelerator card or power module that carries it. 2) Demand is expected to expand with GPU and custom ASIC server shipments, but the growth

mechanism is not only server unit growth. Higher current rails, faster transient response, wider 48 V to point of load conversion, denser accelerator boards and stricter reliability requirements all increase the value of low ESR polymer aluminum parts. At the same time, some high frequency decoupling is shifting toward MLCCs and advanced package capacitors, so the product grows mainly where capacitance density, ripple absorption and stable bias behavior matter more than the smallest possible inductance. 3) Supply is led by Japanese and Taiwanese passive component makers, with Chinese and Korean suppliers expanding in mid range and high reliability lines. Qualification cycles are important because AI server OEMs require stable electrical behavior, long operating life, supply continuity and consistency across large batch assembly. The company pool should be read as a mixed structure of global incumbents, server qualified regional producers and broader capacitor suppliers with eligible polymer lines, rather than as evidence that every listed company has equal AI server exposure. 4) The main demand locations are GPU accelerator boards, server motherboards, high current DC DC converters, intermediate bus power modules and rack level power delivery boards. These locations share the same electrical problem but differ in capacitance value, mounting form, ESR target and thermal stress. This makes classification by mounting form, capacitance range and ESR range more useful than classification by customer industry. 5) The market is positioned between commodity aluminum capacitors and advanced high frequency decoupling components. It benefits from AI infrastructure expansion, yet remains exposed to price pressure, design replacement by MLCC arrays, board space constraints and platform redesigns. A sound report should focus on configuration intensity per server, supplier qualification, product mix upgrade and the boundary between polymer aluminum, MLCC and polymer tantalum solutions.

This report studies the global Polymer Aluminum Electrolytic Capacitor for AI Server production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polymer Aluminum Electrolytic Capacitor for AI Server 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 Polymer Aluminum Electrolytic Capacitor for AI Server that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polymer Aluminum Electrolytic Capacitor for AI Server total production and demand, 2021-2032, (Million Units)

Global Polymer Aluminum Electrolytic Capacitor for AI Server total production value, 2021-2032, (USD Million)

Global Polymer Aluminum Electrolytic Capacitor for AI Server production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Polymer Aluminum Electrolytic Capacitor for AI Server consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Polymer Aluminum Electrolytic Capacitor for AI Server domestic production, consumption, key domestic manufacturers and share

Global Polymer Aluminum Electrolytic Capacitor for AI Server production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Polymer Aluminum Electrolytic Capacitor for AI Server production by Mounting Form, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Polymer Aluminum Electrolytic Capacitor for AI Server production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Polymer Aluminum Electrolytic Capacitor for AI Server 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 Panasonic Industry Co., Ltd., Murata Manufacturing Co., Ltd., Nichicon Corporation, Nippon Chemi-Con Corporation, Shanghai Yongming Electronic Co., Ltd., YAGEO Corporation (KEMET Electronics Corporation), Rubycon Corporation, APAQ Technology Co., Ltd., Lelon Electronics Corp., CapXon Electronic Technology Co., Ltd., 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 Polymer Aluminum Electrolytic Capacitor for AI Server 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 Mounting Form, 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 Polymer Aluminum Electrolytic Capacitor for AI Server Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polymer Aluminum Electrolytic Capacitor for AI Server Market, Segmentation by Mounting Form:

Molded SMD Chip

Cylindrical SMD Can

Radial Leaded Can

Others

Global Polymer Aluminum Electrolytic Capacitor for AI Server Market, Segmentation by Capacitance:

Below 100 μ F

100 μ 330 μ F

331?820 ?F

Above 820 ?F

Global Polymer Aluminum Electrolytic Capacitor for AI Server Market, Segmentation by ESR:

Below 5 m?

5?10 m?

11?20 m?

Above 20 m?

Global Polymer Aluminum Electrolytic Capacitor for AI Server Market, Segmentation by Application:

GPU Accelerator Boards

Server Motherboards

High Current DC DC Converters

Others

Companies Profiled:

Panasonic Industry Co., Ltd.

Murata Manufacturing Co., Ltd.

Nichicon Corporation

Nippon Chemi-Con Corporation

Shanghai Yongming Electronic Co., Ltd.

YAGEO Corporation (KEMET Electronics Corporation)

Rubycon Corporation

APAQ Technology Co., Ltd.

Lelon Electronics Corp.

CapXon Electronic Technology Co., Ltd.

AiSHi Capacitors / Hunan Aihua Group Co., Ltd.

Nantong Jianghai Capacitor Co., Ltd.

Zhaoqing Beryl Electronic Technology Co., Ltd.

Knowles Corporation (Cornell Dubilier Electronics, Inc.)

W?rth Elektronik eiSos GmbH & Co. KG

Taiyo Yuden Co., Ltd. (ELNA Co., Ltd.)

Chinsan Electronic Industrial Co., Ltd.

Viking Tech Corporation

Kyocera Corporation (KYOCERA AVX Components Corporation)

Man Yue Technology Holdings Limited

Samwha Electric Co., Ltd.

SUN Electronic Industries Corp.

Key Questions Answered:

1. How big is the global Polymer Aluminum Electrolytic Capacitor for AI Server market?
2. What is the demand of the global Polymer Aluminum Electrolytic Capacitor for AI Server market?
3. What is the year over year growth of the global Polymer Aluminum Electrolytic Capacitor for AI Server market?
4. What is the production and production value of the global Polymer Aluminum Electrolytic Capacitor for AI Server market?
5. Who are the key producers in the global Polymer Aluminum Electrolytic Capacitor for AI Server market?
6. What are the growth factors driving the market demand?

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