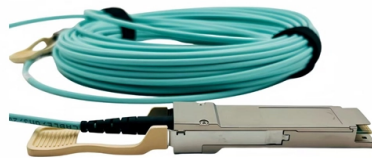


AI Server Inductor Manufacturer



AI Overview

Leading manufacturers of AI server inductors include Cyntec, Codaca, TDK, and TRIO Technology, offering high-current, thermally stable, and high-efficiency solutions for AI and HPC servers. Key Manufacturers and Their Offerings

Cyntec specializes in high-power density chokes, power modules, and compact, low-loss power inductors designed for AI server applications such as SXM accelerator cards and UBB motherboards. Their TLVR power inductors feature multi-phase, thin-profile designs that improve dynamic response, power conversion efficiency, and thermal management, supporting high-current transient loads in AI servers.

Codaca provides customizable inductor solutions for AI servers, including through-hole common-mode chokes (TCAB series), high-saturation high-current inductors (CSBA and CSBX series), low-loss molded inductors (CSAB, CSEB, CSEC, CSHB, CSHN series), and TLVR inductors (CSFED series). These inductors are optimized for high power density, efficiency, and reliability in AI server environments.

TDK manufactures a wide range of inductors using multilayer processing, wire-winding, laser cut, and thin-film technologies. Their SPM series power inductors are metal composite wire-wound types that offer high current capacity, low DC resistance, compact size, and superior DC bias characteristics, suitable for high-frequency and high-power AI server circuits.

TRIO Technology produces high-density molded and thermal compression inductors for AI servers. These inductors are designed for high current handling, excellent thermal stability, low electromagnetic interference, and high reliability, making them ideal for high-load, high-temperature AI server applications.

Market Context

The AI server market is rapidly growing, with increasing demand for high-performance, energy-efficient, and compact inductors. AI servers typically operate at high currents and power densities, requiring inductors with high saturation current, low DC resistance, and excellent thermal stability to ensure system reliability and efficiency.

Article Content

Inductors for AI servers Market – PW Consulting Information ...

In 2025, Molding Power Inductors dominated the AI server inductor market with USD 679.45 Million in revenue, representing approximately 71.5% of global share.

Coilmaster Launches High Current Flat Wire Power Inductors for AI ...

Coilmaster offers AEC-Q200 certified, high-efficiency power inductors, chokes, and transformers. Specializing in low-loss, high-current components for Automotive, 5G, and Industrial

AI Server Requirements for Inductor and Selection Recommendations

As a core component in AI servers, inductors play a vital role in power management, signal filtering, and other critical functions. As one of the leading magnetics supplier, Codaca offers

AI Server & Switch

Cyntec has developed compact, high-efficiency, low-loss power inductors specifically designed for applications such as AI server SXM accelerator cards, UBB motherboards, and Switch.

Innovative Voltage-Reduction Inductors for AI Server Core Circuits

07/06/2024 TLVR Choke LVR1005 series, an innovative inductor designed for AI server core power supplies. The TLVR Choke aims to address the voltage drop issues caused by CPU process scaling

In AI servers, inductors mainly play the following roles

- In the complex power circuit of AI servers, there are current fluctuations of various frequencies. Inductors can form a filter circuit with capacitors to filter high-frequency noise on the

Power Inductor for AI Server PDN: Specifications and Placement

Master multiphase VRM power inductor selection and PCB placement rules for AI server PDNs. Learn about Isat, DCR, TLVRs, and high-density layout strategies.

AI Server Power (48V → 12V → POL) | Common Mode

We focus on specialized structures like Assembled Shielded Inductors and Ultra-low DCR VRM Inductors to ensure maximum efficiency and electrical safety in

Inductor Technology Dossier

The global inductor market reached an estimated USD 11.28 billion in 2025, representing a 4.23% compound annual growth rate, while the broader transformer market exceeded USD 64–71

Global MLCC Leader Murata to Raise Prices in April, Surging Silver ...

The global passive components market is witnessing a new wave of price increases. Industry leader Japan's Murata Manufacturing has formally notified customers that it will implement

Application of inductors in AI servers and key factors in their ...

The requirements of AI servers for inductors vary depending on the application scenario, and different types of inductors have their own advantages in performance, structure, and applicable

Global Inductor Manufacturers

Today we're compiling a comprehensive list of inductor brands worldwide. Core Working Principle of Inductors: Pass DC, block AC; pass low frequencies, block high frequencies. 1. Murata

Global Inductor Manufacturers

Global Inductor Manufacturers - Complete Guide 2026 with Official Websites Today we're compiling a comprehensive list of inductor brands worldwide. Core Working Principle of Inductors:

Powering the AI Revolution Efficiently and Cost Effectively

Powering the AI Revolution Efficiently and Cost Effectively The data center of the future—the AI factory—runs on thousands of AI accelerators, each of which consumes over 1000 A.

Powering AI: The Semiconductor Ecosystem at the Foundation of

Voltage regulator modules (VRMs) and passive components (capacitors, inductors, chokes, resistors) are the hidden workhorses of AI server hardware. A VRM itself is not a single chip but a small power

2026 Inductor Industry: 3 Key Trends

2026 Inductor Industry Trends: Miniaturization, high-frequency performance, and integration are reshaping the global passive component market. By mid-2026, inductors, long considered

Rack-Scale Agentic AI Supercomputer | NVIDIA Vera Rubin NVL72

NVIDIA Vera Rubin Ramps Into Full Production to Power Agentic AI Factories Worldwide The NVIDIA Vera Rubin is ramping into full production, with Taiwan's top server makers and global supply chain

Global Mlcc Demand Surges As Ai Servers Drive A New Cycle In

AI Servers Trigger a Structural Surge in Global MLCC Demand The global passive components industry is entering a new growth cycle driven by the rapid acceleration of AI

2026 Passive Components Market Update: Sourcing Tactics Amid

The Q2-Q3 2026 passive components market is experiencing structural shortages and price hikes driven by booming AI infrastructure demand and rising raw material costs. To combat

Epic Price Surge of MLCC Is on the Horizon

The demand for AI servers falls short of expectations, leading to a decline in high - capacity MLCC orders. The expansion progress of leading manufacturers exceeds expectations,

AI Server Requirements for Inductor and Selection Recommendations

1- AI Server Requirements for Inductors Compared with traditional servers, AI servers have significantly different requirements in terms of performance, power density, and energy

Inductors for AI servers Market

The Inductors for AI servers Market was valued at USD 2.09 billion in 2025 and is projected to reach USD 2.55 billion in 2026. It is expected to continue growing at a CAGR of 23.07%, reaching USD

Tai-Tech to mass produce TLVR inductors for AI server apps in 4Q23

Taiwan-based power inductor specialist Tai-Tech Advanced Electronics is on track to volume produce its newly developed trans-inductor voltage regulator (TLVR) dual winding inductors

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