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Global Power Inductors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Inductors market size is expected to reach $ 8743 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

An inductor, also called a coil/choke/ reactor, is a passive two-terminal electrical component that stores energy in a magnetic field when electric current flows through it. Inductor can be subdivided into radio frequency inductors and power inductors. RF Inductors is the inductors for high-frequency circuits are used in the high-frequency band from 10 MHz to several GHz. As these products require a high Q (Quality factor) value, most have a non-magnetic core structure, and they are mainly used in the high-frequency circuits of mobile communications equipment, such as mobile phones, wireless LAN, and others. Power inductors are solid state electronic component that receives and stores electrical energy utilizing a magnetic field. This field is typically created with tightly coiled conductive wire such as copper. Power inductors can be subdivided into integrated power inductors and non-integrated power inductors. At present, non-integrated power inductors occupy the main market share, but the share of integrated power inductors is gradually increasing. In 2025, global power inductor production reached 83.367 billion units, with an average selling price of USD 62.50 per thousand units.

As a key magnetic component in switching power supplies and power conversion chains, the power inductor industry is primarily driven by upgrades in power architectures and rising demand for higher power density. On the one hand, higher switching frequencies, greater integration, and stricter EMI/thermal-management requirements continue to push material and structural innovation; on the other hand, traditional applications such as consumer electronics, computers, automotive, and industrial equipment provide a stable long-term demand base. Manufacturers that can

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balance product innovation, quality consistency, and flexible supply strategies—while building strong channel partnerships and deep relationships with leading customers—will hold a competitive edge. However, to overcome constraints from miniaturization, pricing pressure, and customization complexity, companies must continue investing in material systems, automated manufacturing, and customer-centric design capabilities. From a supply–demand and pricing perspective, the industry has faced noticeable price volatility and margin fluctuations in recent years. Changes in the costs of ferrite powders, copper, rare earths, and other raw materials, combined with periodic supply–demand imbalances, have led to price swings of more than 9% in certain years, with the average inductor price increase at 1.54%. This volatility increases uncertainty for both component suppliers and end users, complicating inventory management and contract pricing. While some manufacturers can pass through cost increases via pricing power, many others experience margin pressure. Overall, even as the industry maintains steady growth, it must continually address cost inflation, material shortages, thermal constraints, and uncertainties associated with potential disruptive technology pathways. Geopolitical and trade factors further increase supply-chain complexity. U.S. tariff policies, export restrictions on critical components, and escalating U.S.–China trade tensions have disrupted traditional global supply chains, prompting OEMs and component suppliers to reassess sourcing strategies and manufacturing footprints. Diversifying production locations and adopting dual-sourcing strategies are increasingly used to reduce dependence on any single region. These shifts may extend lead times, raise operating costs, and impose higher requirements on supply resilience—particularly for automotive and industrial customers that place strong emphasis on reliability and long-term continuity of supply. From the perspective of technology and product-structure evolution, innovation remains the core growth engine of the power inductor market. Manufacturers are advancing metal-composite magnetic materials, one-piece molded structures, flat-wire windings, and low-DCR designs to improve efficiency and thermal stability under high-frequency and high-current conditions, thereby supporting higher power-density modules and more compact system layouts. Automotive electrification, 5G deployment, and the expansion of AI and edge computing continue to drive demand for high-performance power inductors used in power regulation, filtering, and electromagnetic compatibility. In particular, the penetration of metal-composite power inductors and TLVR-related inductors in automotive and data-center applications is accelerating, shifting the industry from “general-purpose supply” toward “high-end and application-specific solutions.” Looking ahead to 2026–2032, emerging applications are more likely to deliver “structural upgrading” rather than “explosive volume growth.” Overall unit shipments are expected to maintain a moderate growth rate of around 4%, largely because major traditional end markets such as smartphones and PCs have entered a low-growth phase, and AI

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smartphones and AI PCs mainly represent feature upgrades and replacement cycles within an existing shipment base. Meanwhile, emerging scenarios such as humanoid robots and the low-altitude economy remain small in total share, so their contribution to overall unit demand is primarily incremental rather than a step-change in scale. The more decisive shift is the rise in value per unit: AI and data-center build-outs are driving higher rack power density, increasing VRM phase counts, peak currents, and component specifications, and accelerating penetration of medium-to-high-current molded inductors, one-piece molded inductors, and flat-wire inductors. Humanoid robots—effectively a combination of multi-DOF servo systems, large-capacity batteries, BMS, and high-compute platforms—feature more complex power architectures and higher peak power, significantly raising reliance on high-current, high-frequency, and high-reliability inductors. The low-altitude economy (eVTOL) is expected to command premiums through stringent requirements for reliability, vibration resistance, wide-temperature consistency, and traceable manufacturing, with incremental growth driven more by a rising share of high-end products than by simple unit expansion. Regionally, Asia-Pacific will remain the primary production and consumption base, while North America and Europe are increasing investments in localizing passive-component manufacturing to strengthen supply-chain resilience. Together with government incentives for semiconductor and electronics manufacturing, these factors are expected to further deepen the trend toward regional rebalancing of demand and capacity.

This report studies the global Power Inductors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Inductors 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 Power Inductors that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Power Inductors total production and demand, 2021-2032, (Million Units)

Global Power Inductors total production value, 2021-2032, (USD Million)
Global Power Inductors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)
Global Power Inductors consumption by region & country, CAGR, 2021-2032 & (Million Units)
U.S. VS China: Power Inductors domestic production, consumption, key domestic

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manufacturers and share
Global Power Inductors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Power Inductors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Power Inductors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Power Inductors 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 Delta Electronics, TDK, Murata, YAGEO, Taiyo Yuden, Sunlord Electronics, Vishay, Sumida, Coilcraft, Shenzhen Microgate Technology, 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 Power Inductors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Units) and average price (US$/K Units) 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 Power Inductors Market, By Region:

United States

China

Europe

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Japan

South Korea

ASEAN

India

Rest of World

Global Power Inductors Market, Segmentation by Type:

SMD

Through Hole

Global Power Inductors Market, Segmentation by Manufacturing Process:

Wound & Coated Power Inductor

Molded (One-piece) Power Inductor

Multilayer Co-fired Power Inductor

Assembled Power Inductor

Global Power Inductors Market, Segmentation by Sales Channel:

Direct Sales

Distribution

Global Power Inductors Market, Segmentation by Application:

Smartphones

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- Consumer Electronics
- Computers
- Automotive
- Industrial Control Equipment
- Home Appliances
- Security & Surveillance Systems
- Servers & Data Centers
- Networking & Communications
- Others

Companies Profiled:

- Delta Electronics
- TDK
- Murata
- YAGEO
- Taiyo Yuden
- Sunlord Electronics
- Vishay
- Sumida
- Coilcraft

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Shenzhen Microgate Technology

Tai-Tech Advanced Electronics

Lianzhen Electronics

Panasonic

MinebeaMitsumi

Kun Shan Mazo Tech

TRIO Technology International

Eaton

3L Electronic

Laird Technologies

Shenzhen Yigan Technology

KYOCERA

ABC Taiwan Electronics

INPAQ

W?rth Elektronik

Tongyou Group

Bourns

Samsung Electro-Mechanics

Fenghua Advanced

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Sagami Elec

Littelfuse

Zhenhua Fu Electronics

Key Questions Answered:

1. How big is the global Power Inductors market?
2. What is the demand of the global Power Inductors market?
3. What is the year over year growth of the global Power Inductors market?
4. What is the production and production value of the global Power Inductors market?
5. Who are the key producers in the global Power Inductors market?
6. What are the growth factors driving the market demand?

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