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

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Abstracts

The global Inductors for Power Circuits market size is expected to reach $ 5061 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

Inductors for power circuits are passive electronic components used in DC or AC power systems, primarily for energy storage, filtering, smoothing current fluctuations, and suppressing electromagnetic interference (EMI). They typically consist of a conductive wire wound around a magnetic core made of iron powder, ferrite, amorphous, or nanocrystalline materials with high permeability, storing energy in a magnetic field and releasing it to stabilize current during changes. Power circuit inductors are widely applied in switching power supplies, DC-DC converters, AC-DC power supplies, UPS systems, electric vehicle power electronics, and industrial power modules, serving as critical components to ensure stable and efficient power delivery. Their design must consider rated current, saturation characteristics, DC resistance, frequency response, and packaging, while meeting high-temperature, vibration, and long-term reliability requirements.

The upstream of the inductor industry chain mainly includes suppliers of magnetic materials (such as iron powder, ferrite, nanocrystalline and amorphous alloys), wires, insulating materials, encapsulating resins, and related electronic component manufacturing equipment. These raw materials and equipment provide the basic support for inductor production. The midstream consists of inductor design and manufacturing companies, responsible for coil winding, core assembly, packaging, testing, and quality certification. Their products cover various types, including power inductors, common-mode/differential-mode inductors, and filter inductors, and are widely used in switching power supplies, DC-DC converters, UPS, electric vehicle

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control systems, and industrial power modules. The downstream includes various power systems and application terminals, such as communication base station power supplies, industrial control power supplies, computer and server power supplies, home appliance and consumer electronics power supplies, and new energy vehicle and vehicle electronic control systems. Power efficiency, stability, and EMI suppression capabilities are the main driving factors for inductor performance requirements.

In 2025, global sales of inductors for power circuits reached 28.45 billion units, with a production capacity of approximately 40.5 billion units. The average selling price was US$0.13 per unit, and the average gross profit margin was 20%-30%.

The demand for inductors in power supply circuits mainly comes from switching power supplies, DC-DC converters, UPS, communication power supplies, industrial power modules, and new energy vehicle electronic control systems. Among these, the demand for high-frequency, high-power-density inductors is growing rapidly in new energy vehicles and high-voltage automotive electronic systems; upgrades to switching power supplies in data centers and industrial automation are driving the continued expansion of the power inductor market. The demand for filtering and EMI suppression inductors in consumer electronics, smart home appliances, and automotive infotainment systems maintains steady growth, forming the foundation of the market.

Power inductor technology is developing towards higher frequencies, lower losses, miniaturization, integration, and higher reliability. Power inductors utilize iron powder, ferrite, or nanocrystalline cores to increase magnetic flux density and reduce DC bias losses; filtering and EMI inductors are trending towards integrated packaging or multi-layer stacked designs, saving PCB space and optimizing frequency response. Packaging forms are also continuously miniaturizing, with SMD surface mount technology becoming mainstream, while simultaneously meeting the requirements of automotive-grade or industrial-grade high-temperature and high-vibration environments.

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

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

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Highlights and key features of the study
Global Inductors for Power Circuits total production and demand, 2021-2032, (K Units)
Global Inductors for Power Circuits total production value, 2021-2032, (USD Million)
Global Inductors for Power Circuits production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Inductors for Power Circuits consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Inductors for Power Circuits domestic production, consumption, key domestic manufacturers and share
Global Inductors for Power Circuits production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Inductors for Power Circuits production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Inductors for Power Circuits production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Inductors for Power Circuits 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 Murata, TDK, Taiyo Yuden, Panasonic, Sumida, Vishay, Coilcraft, Bourns, W?rth Elektronik, Samsung Electro-Mechanics, 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 Inductors for Power Circuits market

Detailed Segmentation:

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

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Inductors for Power Circuits Market, Segmentation by Type:

Multilayer

Wire Wound

Surface-Mount

Global Inductors for Power Circuits Market, Segmentation by Magnetic Core:

Ferrite Core

Alloy Core

Global Inductors for Power Circuits Market, Segmentation by Inductance:

?1?H

1-10?H

?10?H

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Global Inductors for Power Circuits Market, Segmentation by Application:

Switching Power Supplies

DC-DC Converters

Industrial Power Modules

Communication and Information Systems

New Energy Vehicles

Others

Companies Profiled:

Murata

TDK

Taiyo Yuden

Panasonic

Sumida

Vishay

Coilcraft

Bourns

W?rth Elektronik

Samsung Electro-Mechanics

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Delta

Yageo

Kemet

Eaton

Pulse Electronics

TE Connectivity

Sunlord Electronics

Chilisin

Poco Magnetic

FENGHUA

Microgate

CODACA

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

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