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Global Inductors for Power Circuits Market Growth 2026-2032

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Abstracts

The global Inductors for Power Circuits market size is predicted to grow from US$ 3618 million in 2025 to US$ 4884 million in 2032; it is expected to grow at a CAGR of 4.5% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the ?Inductors for Power Circuits Industry Forecast? looks at past sales and reviews total world Inductors for Power Circuits sales in 2025, providing a comprehensive analysis by region and market sector of projected Inductors for Power Circuits sales for 2026 through 2032. With Inductors for Power Circuits sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Inductors for Power Circuits industry.

This Insight Report provides a comprehensive analysis of the global Inductors for Power

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Circuits landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Inductors for Power Circuits portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Inductors for Power Circuits market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Inductors for Power Circuits and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Inductors for Power Circuits.

This report presents a comprehensive overview, market shares, and growth opportunities of Inductors for Power Circuits market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Multilayer

Wire Wound

Surface-Mount

Segmentation by Magnetic Core:

Ferrite Core

Alloy Core

Segmentation by Inductance:

?1?H

1-10?H

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?10?H

Segmentation by Application:

Switching Power Supplies

DC-DC Converters

Industrial Power Modules

Communication and Information Systems

New Energy Vehicles

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

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- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- Murata
- TDK

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Taiyo Yuden

Panasonic

Sumida

Vishay

Coilcraft

Bourns

W?rth Elektronik

Samsung Electro-Mechanics

Delta

Yageo

Kemet

Eaton

Pulse Electronics

TE Connectivity

Sunlord Electronics

Chilisin

Poco Magnetic

FENGHUA

Microgate

CODACA

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Key Questions Addressed in this Report
What is the 10-year outlook for the global Inductors for Power Circuits market?
What factors are driving Inductors for Power Circuits market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Inductors for Power Circuits market opportunities vary by end market size?
How does Inductors for Power Circuits break out by Type, by Application?

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