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Global Automotive Power Circuit Inductors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Power Circuit Inductors market size was valued at US$ 1455 million in 2025 and is forecast to a readjusted size of US$ 1948 million by 2032 with a CAGR of 4.3% during review period.

Automotive power circuit inductors are passive electronic components specifically designed for vehicle power systems, primarily used for energy storage, filtering, ripple current suppression, and electromagnetic interference (EMI) mitigation. They typically consist of a conductive coil wound around a magnetic core made of iron powder, ferrite, nanocrystalline, or amorphous materials, storing energy in a magnetic field and releasing it to stabilize voltage and current in the power circuit. These inductors are widely applied in on-board DC-DC converters, on-board chargers (OBC), motor control systems, in-vehicle infotainment, and advanced driver-assistance systems (ADAS), forming a critical component to ensure the stability and reliability of automotive electronic systems. Their design must balance rated current, saturation characteristics, DC resistance, frequency response, and packaging, while meeting automotive environmental requirements such as high temperature, vibration, and long-term reliability.

The upstream of the inductor industry chain mainly includes suppliers of raw materials such as magnetic materials (e.g., iron powder, ferrite, nanocrystalline or amorphous alloys), copper wire, insulating materials, and encapsulating resins, as well as suppliers of winding and testing equipment, providing a fundamental guarantee for inductor production. The midstream consists of inductor design and manufacturing companies, responsible for coil winding, core assembly, packaging, testing, and quality certification.

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Their products cover various types, including power inductors, common-mode/differential-mode inductors, and filter inductors, and are used in power circuits for automotive DC-DC converters, on-board chargers (OBC), motor control modules, in-vehicle infotainment systems, and ADAS. The downstream includes various automotive electronic system manufacturers and OEMs, who demand high reliability, high-temperature resistance, vibration resistance, and low ripple current from inductors to ensure the stable and efficient operation of the vehicle's power system, while supporting the rapid development of new energy vehicles and intelligent vehicles.

In 2025, global sales of inductors for automotive power circuits reached 6.15 billion units, with a production capacity of approximately 8.8 billion units. The average selling price was US$0.23 per unit, and the average gross profit margin was 25%-35%.

The demand for automotive power circuit inductors primarily comes from automotive DC-DC converters, on-board chargers (OBCs), motor control modules, infotainment systems, and ADAS systems. The rapid development of new energy vehicles and high-voltage automotive electronic systems is the core driver of the growth in demand for power inductors. Meanwhile, the demand for filtering and EMI suppression inductors from automotive infotainment and intelligent driving systems remains stable, forming a stable base. Overall, electrification and intelligentization are the main sources of future demand growth.

Power inductor technology is developing towards higher frequencies, lower losses, miniaturization, integration, and higher reliability. Power inductors often use iron powder, ferrite, or nanocrystalline cores to increase magnetic flux density and reduce DC bias losses. Filtering and common-mode inductors are trending towards integrated packaging and multi-layer stacked designs to save PCB space and optimize frequency response. The trend towards miniaturization in packaging is significant, with SMD (Surface Mount Device) becoming mainstream, while simultaneously meeting automotive-grade requirements for high temperature, high vibration, and long-term reliability.

This report is a detailed and comprehensive analysis for global Automotive Power Circuit Inductors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

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Key Features:

Global Automotive Power Circuit Inductors market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive Power Circuit Inductors market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive Power Circuit Inductors market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive Power Circuit Inductors market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Power Circuit Inductors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Power Circuit Inductors market based on the following parameters - company overview, sales quantity, revenue, 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.

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Market Segmentation

Automotive Power Circuit Inductors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Wire Wound

Surface-Mount

Market segment by Magnetic Core

Ferrite Core

Alloy Core

Market segment by Inductance

?1?H

1-10?H

?10?H

Market segment by Application

DC-DC Converter

On-Board Charger

Motor Control System

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Advanced Driver Assistance System

Battery Management System

Others

Major players covered

Murata

TDK

Taiyo Yuden

Panasonic

Sumida

Vishay

Coilcraft

Bourns

W?rth Elektronik

Samsung Electro-Mechanics

Delta

Yageo

Kemet

Eaton

Pulse Electronics

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TE Connectivity

Sunlord Electronics

Chilisin

Poco Magnetic

FENGHUA

Microgate

CODACA

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Power Circuit Inductors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Power Circuit Inductors, with price, sales quantity, revenue, and global market share of Automotive Power Circuit Inductors from 2021 to 2026.

Chapter 3, the Automotive Power Circuit Inductors competitive situation, sales quantity,

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revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Power Circuit Inductors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Automotive Power Circuit Inductors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Power Circuit Inductors.

Chapter 14 and 15, to describe Automotive Power Circuit Inductors sales channel, distributors, customers, research findings and conclusion.

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