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

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Abstracts

The global Automotive Power Circuit Inductors market size is expected to reach $ 1948 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

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. Their products cover various types, including power inductors, common-mode/differential-mode inductors, and filter inductors, and are used in power circuits for

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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 studies the global Automotive Power Circuit Inductors production, demand, key manufacturers, and key regions.

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

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

This report profiles key players in the global Automotive Power Circuit 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 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 Automotive Power Circuit Inductors 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.

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Global Automotive Power Circuit Inductors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Power Circuit Inductors Market, Segmentation by Type:

Wire Wound

Surface-Mount

Global Automotive Power Circuit Inductors Market, Segmentation by Magnetic Core:

Ferrite Core

Alloy Core

Global Automotive Power Circuit Inductors Market, Segmentation by Inductance:

?1?H

1-10?H

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?10?H

Global Automotive Power Circuit Inductors Market, Segmentation by Application:

DC-DC Converter

On-Board Charger

Motor Control System

Advanced Driver Assistance System

Battery Management System

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

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Contents

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3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

4 UNITED STATES VS CHINA VS REST OF THE WORLD

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5 MARKET ANALYSIS BY TYPE

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6 MARKET ANALYSIS BY MAGNETIC CORE

7 MARKET ANALYSIS BY INDUCTANCE

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info@marketpublishers.com

8 MARKET ANALYSIS BY APPLICATION

9 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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