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Global Automotive PFC 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 PFC Inductors market size was valued at US$ 1745 million in 2025 and is forecast to a readjusted size of US$ 2494 million by 2032 with a CAGR of 5.3% during review period.

Automotive PFC inductors are passive electronic components specifically designed for vehicle power systems. Their primary function is to perform power factor correction (PFC), energy storage, filtering, and electromagnetic interference (EMI) suppression. They typically consist of a conductive coil wound on a ferrite, iron powder, or nanocrystalline/amorphous magnetic core, storing and releasing energy to align input current with the voltage waveform, thereby improving power factor and reducing harmonic distortion. Automotive PFC inductors are widely used in on-board AC-DC chargers (OBC), high-voltage DC-DC converters, and electric vehicle onboard power modules, serving as critical components to ensure high efficiency, stability, and reliability of the vehicle power system. Design considerations include rated current, magnetic core saturation characteristics, DC resistance, frequency response, and automotive-grade reliability, while meeting requirements such as high temperature tolerance, vibration resistance, and long-term operational life.

The upstream of the industry chain mainly includes suppliers of raw materials such as magnetic materials (e.g., ferrite, iron powder, nanocrystalline or amorphous magnetic cores), copper wire, insulating materials, and encapsulating resins. It also encompasses winding equipment, testing instruments, and related production tools, providing fundamental support for PFC inductor manufacturing. The midstream consists of design and manufacturing companies responsible for coil winding, core assembly, packaging, and performance testing. Their product types include high-frequency power PFC

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inductors, common-mode/differential-mode inductors, and modular filter inductors, widely used in on-board AC-DC chargers (OBCs), high-voltage DC-DC converters, and power modules for new energy vehicles. The downstream comprises OEMs and automotive electronic system manufacturers, who impose stringent requirements on PFC inductors, including high power handling capacity, high-frequency characteristics, low DC resistance, low ripple, and automotive-grade reliability, to ensure the efficient, stable, and safe operation of power systems in new energy vehicles and intelligent vehicles.

In 2025, global sales of automotive PFC inductors reached 320 million units, with a production capacity of approximately 450 million units. The average selling price was $5.3 per unit, and the average gross margin was 25%-35%.

The primary demand for automotive PFC inductors comes from on-board AC-DC chargers (OBCs), high-voltage DC-DC converters, and power modules for new energy vehicles. Among these, the high-voltage electronic control platforms and bidirectional energy feedback systems of new energy vehicles are the core drivers of growth. Simultaneously, the demand for filtering and EMI suppression in in-vehicle infotainment and advanced driver assistance systems (ADAS) is also continuously increasing. Overall demand exhibits three major trends: electrification, high power, and intelligentization, driving stable market growth.

Automotive PFC inductor technology is evolving towards high power density, high efficiency, miniaturization, high frequency, and modular packaging. Power inductors utilize ferrite or nanocrystalline/amorphous cores to achieve high frequency and high power density. Small SMD packaging and multi-winding designs save PCB space and meet automotive-grade reliability requirements. Technological optimizations also include low DC resistance, low ripple design, and optimized core saturation characteristics to handle high current and transient loads.

This report is a detailed and comprehensive analysis for global Automotive PFC 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.

Key Features:

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

Global Automotive PFC 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 PFC 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 PFC 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 PFC 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 PFC 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 TDK, Murata, Chemi-Con, Taiyo Yuden, Panasonic, Sumida, Vishay, Coilcraft, Pulse Electronics, W?rth Elektronik, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive PFC Inductors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts

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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

?100?H

100-150 ?H

?150 nH

Market segment by Application

DC-DC Converter

On-Board Charger

Motor Control System

Advanced Driver Assistance System

Vehicle Communication System

Others

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Major players covered

- TDK
- Murata
- Chemi-Con
- Taiyo Yuden
- Panasonic
- Sumida
- Vishay
- Coilcraft
- Pulse Electronics
- W?rth Elektronik
- Samsung Electro-Mechanics
- Delta
- Yageo
- Eaton
- Sunlord Electronics
- Microgate
- Cenker
- Chilisin

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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 PFC Inductors product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Automotive PFC Inductors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive PFC 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

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Automotive PFC 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 PFC Inductors.

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

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