

# Global Automotive High-Frequency Inductors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automotive High-Frequency Inductors market size is expected to reach \$ 2306 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

Automotive high-frequency inductors are electromagnetic components used in automotive electronic circuits, primarily for energy storage, filtering, electromagnetic interference (EMI) suppression, and energy conversion in high-frequency switching or signal environments. They typically consist of a conductive coil wound around a magnetic core made of high-permeability materials such as iron powder or ferrite, capable of handling high-frequency switching and substantial current loads. These inductors are widely applied in automotive powertrains, onboard chargers, DC-DC converters, electric vehicle motor control, and automotive electronic assistance systems, forming a crucial part of modern intelligent vehicle electrical architectures. Their design must balance high efficiency, low loss, high-temperature tolerance, and vibration resistance while meeting the automotive industry's trends toward lightweight and compact components.

The upstream of the industry chain mainly includes suppliers of magnetic materials, conductive materials, and electronic component manufacturing equipment. Magnetic core materials primarily consist of ferrite, metal powder cores, nanocrystalline, and amorphous alloys, while copper wire, insulating materials, and encapsulating resins are also important raw materials. The midstream comprises companies designing and manufacturing automotive high-frequency inductors, responsible for winding, core assembly, packaging, and performance testing. Product types include power inductors, common-mode inductors, and molded inductors, widely used in new energy vehicles and intelligent automotive electronic systems. The downstream mainly covers new

energy vehicles, electronic control systems, on-board chargers (OBC), DC-DC converters, ADAS systems, infotainment systems, and automotive communication modules. The high-voltage platforms and intelligent upgrades of new energy vehicles are the core drivers of demand growth for automotive high-frequency inductors.

In 2025, global sales of automotive high-frequency inductors reached 9.25 billion units, with a production capacity of approximately 13 billion units. The average selling price was \$0.18 per unit, and the average gross margin was 25%-35%.

The demand for automotive high-frequency inductors primarily stems from new energy vehicles, high-voltage platform electronic control systems, on-board chargers (OBCs), DC-DC converters, and advanced driver assistance systems (ADAS). The increasing penetration rate of new energy vehicles is the core growth driver, with high-power, high-frequency circuits rapidly increasing the demand for small-sized, high-efficiency inductors. Simultaneously, upgrades in intelligent and infotainment systems are also driving the demand for low-power signal filtering and EMI suppression inductors.

Technological evolution trends in automotive high-frequency inductors include higher frequencies, lower losses, miniaturization, and integration. Power inductors are evolving towards iron powder cores and nanocrystalline/amorphous alloy high-frequency magnetic cores to increase magnetic flux density and reduce DC bias losses; common-mode/differential-mode filter inductors are trending towards integrated packaging to reduce PCB space requirements. Technological approaches are also evolving towards higher reliability and high-temperature tolerance to meet the stringent environmental requirements of automobiles. Furthermore, multi-layer winding and embedded packaging have become the mainstream solutions for miniaturization and high-density layouts.

This report studies the global Automotive High-Frequency Inductors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive High-Frequency Inductors total production and demand, 2021-2032,

(K Units)

Global Automotive High-Frequency Inductors total production value, 2021-2032, (USD Million)

Global Automotive High-Frequency Inductors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive High-Frequency Inductors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive High-Frequency Inductors domestic production, consumption, key domestic manufacturers and share

Global Automotive High-Frequency Inductors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive High-Frequency Inductors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive High-Frequency Inductors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive High-Frequency 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, Würth 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 High-Frequency 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.

Global Automotive High-Frequency Inductors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive High-Frequency Inductors Market, Segmentation by Type:

Multilayer

Wire Wound

Global Automotive High-Frequency Inductors Market, Segmentation by Magnetic Core:

Ferrite Core

Alloy Core

Non-Magnetic Core

Global Automotive High-Frequency Inductors Market, Segmentation by Inductance:

0.1-56 nH

56-100 nH

?100 nH

## Global Automotive High-Frequency Inductors Market, Segmentation by Application:

DC-DC Converter

On-Board Charger

Motor Control System

Advanced Driver Assistance System

Vehicle Communication System

Others

## Companies Profiled:

Murata

TDK

Taiyo Yuden

Panasonic

Sumida

Vishay

Coilcraft

Bourns

Würth Elektronik

Samsung Electro-Mechanics

Delta

Yageo

KYOCERA AVX

Eaton

Pulse Electronics

TE Connectivity

Sunlord Electronics

Chilisin

Walsin Technology

FENGHUA

Microgate

CODACA

#### Key Questions Answered:

1. How big is the global Automotive High-Frequency Inductors market?
2. What is the demand of the global Automotive High-Frequency Inductors market?
3. What is the year over year growth of the global Automotive High-Frequency Inductors market?
4. What is the production and production value of the global Automotive High-Frequency Inductors market?
5. Who are the key producers in the global Automotive High-Frequency Inductors market?
6. What are the growth factors driving the market demand?

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