+357 96 030922
info@marketpublishers.com

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

https://marketpublishers.com/r/G8914B51D259EN.html
Date: June 2026
Pages: 146
Price: US$ 4,480.00 (Single User License)
ID: G8914B51D259EN

Abstracts

The global Automotive Coupled Inductors market size is expected to reach $ 1189 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Automotive coupled inductors are magnetic components specifically designed for vehicle power and electronic systems. They consist of two or more windings magnetically coupled through a shared core, enabling energy transfer, common-mode and differential-mode filtering, energy storage, and voltage or current balancing. By providing magnetic coupling within a single component, coupled inductors reduce PCB space requirements and improve power density. They are widely used in automotive DC-DC converters, on-board chargers (OBC), bidirectional power converters, and motor drive systems. Design considerations include rated current, mutual inductance, DC bias characteristics, frequency response, and automotive-grade reliability, while meeting high-temperature, vibration, and long-term operational requirements. Coupled inductors are key components for achieving efficient energy transfer and EMI suppression in modern intelligent vehicle power circuits.

The upstream of the industry chain mainly includes suppliers of magnetic materials (such as ferrite, iron powder, nanocrystalline or amorphous alloys), copper wire, insulating materials, encapsulation resins, and related winding and testing equipment, providing basic support for the manufacturing of coupled inductors. The midstream consists of design and manufacturing companies responsible for multi-winding coil design, core coupling structure manufacturing, packaging, and performance testing. Product types cover dual-winding coupled inductors, multi-winding high-frequency inductors, and integrated filter modules, widely used in power circuits of automotive DC-DC converters, on-board chargers (OBCs), bidirectional power converters, and motor

+357 96 030922
info@marketpublishers.com

drive systems. The downstream consists of OEMs and automotive electronic module manufacturers, who require coupled inductors to have high reliability, high-temperature tolerance, low ripple current, and high mutual inductance performance to ensure the stability, efficiency, and long lifespan of power systems in new energy vehicles and intelligent vehicles.

In 2025, global sales of automotive coupled inductors reached 1.34 billion units, with a production capacity of approximately 1.92 billion units, an average selling price of US$0.63 per unit, and an average gross margin of 25%-35%.

The demand for automotive coupling inductors primarily stems from automotive DC-DC converters, on-board chargers (OBCs), bidirectional power converters, motor control modules, and high-voltage systems in new energy vehicles. Among these, high-voltage platforms and bidirectional energy feedback systems in new energy vehicles are the core drivers of growth. Simultaneously, the demand for filtering and EMI suppression from advanced driver assistance systems (ADAS) and infotainment systems continues to grow. Overall, electrification and intelligentization trends are the main drivers of market growth.

Automotive coupling inductor technology is evolving towards multi-winding integration, high frequency, low loss, miniaturization, and high reliability. Dual-winding or multi-winding coupling structures achieve magnetic field coupling in single-chip or modular packages, improving power density and saving PCB space. Power ratings and frequency response are optimized while meeting high temperature, high vibration, and automotive-grade reliability requirements. Miniaturization of packaging, SMD surface mount technology, and multi-layer stack-up designs are becoming mainstream trends.

This report studies the global Automotive Coupled Inductors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global Automotive Coupled Inductors total production and demand, 2021-2032, (K Units)

+357 96 030922
info@marketpublishers.com

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

This report profiles key players in the global Automotive Coupled 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 Coupled 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 Coupled Inductors Market, By Region:

United States

+357 96 030922
info@marketpublishers.com

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Coupled Inductors Market, Segmentation by Type:

Loose Coupled Inductors

Tight Coupled Inductors

Global Automotive Coupled Inductors Market, Segmentation by Winding Structure:

Two-Winding

Multi-Winding

Stacked

Global Automotive Coupled Inductors Market, Segmentation by Inductance:

1-47?H

47-100?H

Global Automotive Coupled Inductors Market, Segmentation by Application:

+357 96 030922
info@marketpublishers.com

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

W?rth Elektronik

Samsung Electro-Mechanics

Delta

Yageo

+357 96 030922
info@marketpublishers.com

Eaton

Sunlord Electronics

Microgate

CODACA

Mentech

Cenker

Darfon

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

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

+357 96 030922
info@marketpublishers.com

6 MARKET ANALYSIS BY WINDING STRUCTURE

7 MARKET ANALYSIS BY INDUCTANCE

8 MARKET ANALYSIS BY APPLICATION

+357 96 030922
info@marketpublishers.com

9 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Automotive Coupled Inductors Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/G8914B51D259EN.html

Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G8914B51D259EN.html