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Global Automotive-grade Molded Power Inductor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive-grade Molded Power Inductor market size is expected to reach $ 1373 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

In 2025, the global sales volume of Automotive-grade Molded Power Inductors was approximately 725 million units, with an average global market price of approximately USD 0.82 per unit. The gross margin of major manufacturers in the industry was approximately 25%-40%.

Automotive-grade Molded Power Inductor is a high-reliability power magnetic component designed for automotive electronic power systems. This product is typically manufactured by molding copper wire or flat copper wire windings together with metal magnetic powder or alloy magnetic powder materials into an integrated structure. It features compact structure, good magnetic shielding performance, low DC resistance, high saturation current, low loss, high-temperature resistance, vibration resistance, and strong long-term stability. It usually needs to meet automotive-grade reliability requirements such as AEC-Q200, and is mainly used in automotive DC-DC converters, power modules, control units, and high-reliability power supply circuits, where it performs functions such as energy storage, filtering, current stabilization, ripple suppression, and electromagnetic interference reduction.

The upstream of its industrial chain mainly includes iron powder-based, iron-silicon alloy-based, iron-nickel alloy-based and other metal magnetic powder materials, copper wire/flat copper wire, terminals, electrode materials, insulation materials, resin binders, molding equipment, winding equipment, and testing equipment. The midstream includes magnetic powder formulation design, coil winding, molding, curing, electrode

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processing, aging tests, and automotive-grade certification. The downstream applications mainly cover powertrain systems, energy management, body electronics, safety control, automotive lighting, and other automotive electronic systems. The product value is mainly concentrated in magnetic material formulation, low-DCR structural design, molded process capability, thermal management capability, automotive-grade reliability verification, and customer platform certification capability.

This report studies the global Automotive-grade Molded Power Inductor production, demand, key manufacturers, and key regions.

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

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

This report profiles key players in the global Automotive-grade Molded Power Inductor 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 TDK, Panasonic Industry, Sumida,

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Vishay, Bourns, Coilcraft, Abracon, Laird Technologies, Eaton, TT Electronics, 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-grade Molded Power Inductor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million 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-grade Molded Power Inductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive-grade Molded Power Inductor Market, Segmentation by Type:

Iron Powder Type

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Iron-Silicon Alloy Type

Iron-Nickel Alloy Type

Global Automotive-grade Molded Power Inductor Market, Segmentation by Rated Current:

5–20A

20–50A

Above 50A

Global Automotive-grade Molded Power Inductor Market, Segmentation by Application:

Powertrain

Energy Management

Body Electronics

Safety Control

Automotive Lighting

Other

Companies Profiled:

TDK

Panasonic Industry

Sumida

Vishay

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Bourns

Coilcraft

Abracon

Laird Technologies

Eaton

TT Electronics

W?rth Elektronik

Cyntec

Darfon

Tai-Tech Electronics

Mag.Layers

CODACA

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

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Figure 67. Research Process and Data Source

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