

Transforming Electronics: Coupled Inductors in Modern Industries In New Report

Coupled inductor market size by country in each region are mapped according to their revenue contribution to the global market.

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The report includes the analysis of the regional as well as global coupled inductor market trends, key players, market segments, application areas, and market growth strategies.

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Allied Market Research

the report published by Allied Market Research Titled "Coupled Inductor Market Size, Share, Competitive Landscape and Trend Analysis Report, by Type, by Application, by End User : Global Opportunity Analysis and Industry Forecast, 2024-2032."

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A coupled inductors are formed when two coils or inductors are connected through electromagnetic

induction. Whenever an AC flows throughout the primary coil, the coil sets up a magnetic field that is further connected to the [secondary coil](#) and induces a voltage within the coil.

The phenomenon of inducing voltage from one inductor to another is known as mutual inductance.

These inductors are mainly used as essential parts for transformers, electronic circuits and power distribution systems. A pair of coupled inductors can be characterized by three parameters, two self-inductances like L1, L2 and a mutual inductance such as $L_{12}=M$.

According to Allied Market Research, the [coupled inductor market](#) is expected to grow remarkably, owing to the expanding electronics industry. India, China, and Japan have seen widespread changes in the global electronics sector.

This has resulted in a rising demand for inductors and semiconductors. This is motivated by the widespread use of consumer electronics, medical technology, and home appliances.

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Furthermore, substantial investments in research and development, technological advances, and automation are projected to enhance the need even more.

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New technologies such as the Internet of Things and artificial intelligence are influencing the sector, which is further enhancing global requirements for coupled inductors.

In addition, the IT and telecom sectors have witnessed a notable rise in [innovation](#) due to growing digitalization, cloud service reliance, and upgraded IT infrastructure. The industry is benefiting from this trend, as these components enhance the efficiency and durability of hardware.

Increased investments in communications and IT sectors are accelerating industry expansion, positioning coupled inductors as important components in the formation of cutting-edge technology.

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In September 2024, Vishay Intertechnology, Inc. introduced a major expansion of its inductor product lines, offering a wider variety of alternatives for customers to optimize cost and performance.

This expansion consists of new high-inductance and high-voltage inductors, as well as more size variations to accommodate different PCB area requirements. With improved noise reduction capabilities, the extended portfolio now covers a broader spectrum of applications in telecom, industrial, and consumer industries.

Vishay's new offerings include wireless charging inductors, semi-shielded and shielded drum core inductors, coupled inductors, trans inductive voltage regulator inductors, common-mode chokes, and high-current ferrite beads. Vishay is allocating funds to expand the capacity of its facilities across the world.

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This expansion consists of current facilities at Mexico, La Laguna, as well as recently opened factories in Southeast Asia and China.

Mike Husman, the Senior Vice President of Vishay's Inductor Division, stated that the expansion would launch 1,800 new SKUs across 70 different series. This move is expected to strengthen Vishay's position as the leading company in inductor technology.

The company's commitment to fast lead times, broad product availability, and global distribution enables its customers to achieve faster time-to-market.□

To summarize, the coupled inductor industry is experiencing considerable growth because of technological advances and rising demand from diverse sectors. Manufacturers are actively working to create more efficient and versatile products.

These components are expected to be important in advancing energy management and enhancing the performance of electronic devices in the coming years.□

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