

Inductor Market by Inductance (Fixed, Variable), Type (Wire wound, Multilayered, Molded, Film), Core Type (Air, Ferrite, Iron), Shield Type (Shielded, Unshielded), Mounting Technique, Vertical, Application, Geography - Global Forecast 2027

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Abstracts

The inductor market is projected to grow from USD 5.1 billion in 2022 and is projected to reach USD 7.0 billion by 2027; it is expected to grow at a CAGR of 6.6 % from 2022 to 2027.

Rise in innovations and developments in consumer electronic products coupled with surge in the trend of smart cities and smart homes requiring energy-efficient electronic and electrical systems is expected to fuel the growth of the inductor market.

However, fluctuating prices of raw materials, especially copper is a prominent factor limiting the growth of the inductor market.

“Market for automotive vertical segment to grow at the highest CAGR during the forecast period.”

In the automotive applications, inductors being used have to operate under harsh environmental conditions. These inductors can be used a variety of applications including engine and transmission control units, LED drivers, HID lighting, and noise suppression for motors. Advancements in the automotive industry such as passenger comfort and safety, as well as environmental considerations, require expanding electronics to accommodate the decreasing available space. In the automotive industry inductors are used in applications including EMI filtering of high-power lines and energy storage for high-frequency DC-to-DC converters. Surface-mount power inductors are

widely used in the automotive sector. Due to increasing electrification instead of mechanization of a number of systems, large amount of current is required to be appropriately regulated and filtered. Moreover, owing to the adoption and increase in the manufacturing of electric vehicles, the demand for inductors in automobiles has considerably increased.

In January 2022, Panasonic (Japan) launched a power inductor for automotive use that can be surface mounted and is capable of passing a large current of 70 A. The inductor enables ECUs to be directly mounted on engines by achieving excellent heat and vibration resistance.

“Market for general circuits application segment is expected to dominate the market forecast period”

Various types of inductors are used for general circuits. General circuits include filters and oscillators. Other types of general circuits include car navigations, car audios, and body control equipment including wipers and power windows. Inductors combined with capacitors and resistors are widely used to create filters for analog circuits, as well as in signal processing. Since the impedance of an inductor increases as the frequency of a signal increases, an inductor alone can act as a low-pass filter. Oscillators can be made by combining capacitors and inductors. One of the most common types of oscillators is the LC oscillator, which generates a continuous periodic waveform. LC Oscillators are commonly used in radio-frequency circuits owing to their good phase noise characteristics and their ease of implementation. These inductors can't be used for products, which require high reliability, including powertrains and safety equipment.

“Fixed inductors to dominate the market during forecast period”

Fixed inductors have coils that are wound in such a manner that they remain fixed in a position. Inductors acting as chokes are designed specifically for blocking a high-frequency AC current in circuits while allowing a low-frequency DC current to pass through them. Fixed inductors can sustain in high temperatures and can operate in extreme environments; hence, the demand for these inductors is likely to increase in the near future. Fixed inductors are used in filters, sensors, transformers, motors, energy storage systems, among others.

“Europe to hold a significant share of the inductor market during the forecast period”

Europe is expected to hold a significantly large share for 3D inductor market during the

forecast period. The growing demand from the automotive industry and the improving electronics are expected to drive the inductor market during the forecast period. A few of the best equipment and material suppliers are based in Europe. Despite the global economic downturn, investments in the electronics sector in Europe remain constant. Various domestic companies such as TTI Inc. and First Europe provide various types of inductors in the European market and global top players such as TDK and Taiyo Yuden have their sales and distribution centers in the region.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts in the inductor space. The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 –40%, Tier 2 – 40%, and Tier 3 – 20%

By Designation: C-level Executives – 40%, Directors –40%, and Others – 20%

By Region: North America –40%, Asia Pacific– 30%, Europe – 20%, and RoW – 10%

The report profiles key players in the inductor market with their respective market ranking analysis. Prominent players profiled in this report are include Murata Manufacturing (Japan), TDK (Japan), Vishay Intertechnology (US), TAIYO YUDEN (Japan), Chilisin Electronics (Taiwan), Delta Electronics (Taiwan), Panasonic (Japan), ABC Taiwan Electronics (Taiwan), Pulse Electronics (US), Coilcraft (US), Shenzhen Sunlord Electronics (China), Bourns (US) . Apart from these, Sumida (Japan), ICE Components (US), Bel Fuse (France), Falco Electronics (Mexico), GCi Technologies (US), W?rth Elektronik (Germany), Kyocera AVX (US), Samsung Electro-Mechanics (South Korea), Inductor Supply Inc. (US), Gowanda Electronics (US), Token Electronics (Taiwan), TT Electronics (UK), Laird Technologies (US), Johanson Technology (US), Zhenhua Electronics (China) are among a few emerging companies in the inductor market.

Research Coverage:

This research report categorizes global inductor market based on inductance, type, core type, shield type, mounting technique, application, vertical and geography. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the

inductor market and forecasts the same till 2027 (including analysis of COVID-19 impact on the market). Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the inductor ecosystem.

Key Benefits of Buying the Report

The report would help leaders/new entrants in this market in the following ways:

1. This report segments the inductor market comprehensively and provides the closest market size projection for all subsegments across different regions.
2. The report helps stakeholders understand the pulse of the market and provides them with information on key drivers, restraints, challenges, and opportunities for market growth.
3. This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business. The competitive landscape section includes competitor ecosystem, product developments and launches, partnerships, and mergers and acquisitions.
4. The analysis of the top 28 companies, based on the market rank as well as the product footprint will help stakeholders visualize the market positioning of these key players.
5. Patent analysis, trade data, and technological trends that will shape the market in the coming years has also been covered in this report.

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*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats might not be captured in case of unlisted companies.

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