

Global Inductors - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Global Inductors Market size is estimated at USD 11.28 billion in 2025, and is expected to reach USD 14.25 billion by 2030, at a CAGR of 4.79% during the forecast period (2025-2030).

Key Highlights

- With the advent of technological advancements, electronics and electronic devices are getting more complex, primarily due to the increasing consumer demand for small or slim devices. Customers have a specific standard for these devices nowadays, for instance, sleek, thin design, with the screen going from edge to edge.
- Smartphones have witnessed the great success of MEMS gyroscopes owing to their low cost, miniature size, and light weightness. Features like voice-enabled smart devices have increased adoption over the past few years. The adoption of smart devices, such as the Amazon Echo, Google Home, and Sonos, was aggressive by the end of 2023. The younger generation views these devices as the more innovative, faster, and easier way to perform everyday activities. A recent survey conducted by Accenture revealed that more than 50% of internet users use digital voice assistants globally. This is further expected to add to the complexity of electronics, thereby augmenting the demand for inductors.
- Inductors also play an essential role in the healthcare and medical devices industry. Various advancements in the healthcare sector, including improving macro-sized hospital equipment, medical wearables, and point-of-care devices, are expected to increase the demand. The medical industry is continually driving the need for electronics. As technology enhances and smaller, denser, more reliable boards become possible, passive electronic components will play an increasingly important role in healthcare.
- The use of metals, including coppers, iron, and other ferrite substances, for the core and coil of inductors creates the production dependency of inductors on the raw material price. Fluctuations in the supply chain and raw material costs can increase the lead time and impact the profit margin of the market vendors, hindering market growth.

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- The increasing inflation and interest rates further decreased consumer spending, which restricted the market's growth in 2022 and 2023. Due to the war in Russia and Ukraine, European countries experienced inflation, and compared to January 2022, inflation in Germany, Sweden, France, and the United Kingdom increased significantly. In August 2023, the United Kingdom's inflation rate was 6.7% compared to 5.5% in January 2022. These factors hampered the market's growth in 2023. According to the Bureau of Labor Statistics, the US manufacturing sector's output reduced by 0.1% in the third quarter of 2023. This may lead to decreased demand for inductors from the manufacturing sector.

Inductor Market Trends

Frequency Inductor Expected to Witness Significant Growth

- Frequency inductors, called RF (radio frequency) inductors, are specifically designed for applications in high-frequency circuits, such as those used in radio communication, wireless technology, and radar systems. They are necessary because regular inductors, intended for low-frequency applications, may not perform well or even malfunction at higher frequencies due to parasitic capacitance and skin effects. Frequency inductors are optimized to minimize these issues, allowing them to maintain their desired inductance and performance across a wide range of frequencies.
- RF inductors are mainly characterized by low current rating and high electrical resistance. However, the wire resistance increases as the high frequencies are used here. In addition, a few effects come into the picture because of these high-resonant radio frequencies. These include skin effect, proximity effect, and parasitic capacitance.
- RF inductors can be manufactured in different ways. For instance, Murata, one of the prominent vendors of inductors, uses wire wound manufacturing methods, film manufacturing methods, and multi-layer manufacturing methods. Each method has different characteristics.
- There has been a prevailing trend of miniaturization of RF inductors due to their usage in small communication products such as smartphones, wireless modules, Bluetooth modules, etc. Hence, the vendors in the market are focusing on developing small yet powerful RF inductors to contribute to the growth of mobile communication.
- As consumer electronics is the prominent driver for inductor demand, the growing push to adopt 5G technology is expected to drive the demand for various consumer electronics and communication devices worldwide, impacting market growth. The 5G deployments worldwide are increasing the need for RF inductors for IoTs and conventional smartphones. According to the 5G Americas Organization Report released in May 2023, 5G mobile subscriptions were expected to exceed 1.9 billion in 2023 and reach 5.9 billion by 2027.
- In February 2023, GSMA reported that 5G connections are anticipated to double over the upcoming two years. In addition, GSMA also reported that the growth would come from key markets within APAC and LATAM, like Brazil and India, which have recently launched 5G networks. The expansion of services from Airtel and Jio in 2023 was pivotal to India's ongoing adoption. Moreover, GSMA 5G is expected to account for 145 million in India by the end of 2025.

Asia-Pacific to Register Major Growth

- The Asia-Pacific inductor market is driven by demand from industrial economies and technologically advanced countries, such as China, Korea, Japan, and India. China is one of the largest sources of demand for inductor components, owing to the rapidly growing semiconductor industry and industrial automation.
- The growth of smartphones has been exponential, and the number of smartphone users in the Asian-Pacific countries has increased in the past few years. According to GSMA's Mobile Economy report, Asia-Pacific is on its way to becoming the world's largest 5G region by 2025, led by China, Japan, South Korea, and Australia, as well as commercial 5G network launches that are

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expected to reach 675 million 5G connections, more than half of the global 5G total scheduled by 2025.

- Automotive infotainment systems provide music, videos, other multimedia content, navigation, internet connectivity inside vehicles, and communication with outside systems. Vendors are offering new technology designed to reduce the weight of cable harnesses comprising various telecommunication buses. For instance, in January 2024, TDK Corporation introduced its latest inductor KLZ2012-A series (2.0 mm (L) x 1.25 mm (W) x 1.25 mm (H)) for automotive audio bus (A2B) applications with a wide operation range, high durability, and superior inductance tolerance.
- Ferrite core inductors are expected to witness a rise in adoption owing to the growth in the automotive sector to achieve high efficiency in power conversion models used in automotive. They are also helpful for transformers and inductors in automotive and electronic applications. Industry 4.0 has increased the automation of manufacturing and production processes, thus leading to an increased use of inductors, owing to their presence in many electronic assemblies.
- Overall, along with the rapidly growing automotive sector and increasing demand for inductors, countries such as China, Japan, and South Korea are leading various Smart city initiatives. These innovative initiatives in the region create the potential for using inductors across automotive, transportation, energy, and utilities. Furthermore, communication in the area has also witnessed considerable progress, with companies like Murata deploying specialized inductors for NFC circuits. Such developments are likely to propel the region's market growth.

Inductor Industry Overview

The inductor market is highly fragmented due to the presence of both global players and small- and medium-sized enterprises. Some of the major players in the market are TDK Corporation, Vishay Intertechnology Inc., Panasonic Corporation, Delta Electronics Inc., and Pulse Electronics (Yageo Corporation). Players in the market are adopting strategies such as partnerships and acquisitions to enhance their product offerings and gain sustainable competitive advantage.

- March 2024 - Delta Electronics (Thailand) PCL, a branch of Delta Group, recently opened its latest Delta Plant 8 and R&D Center at Bangpoo Industrial Estate in Thailand. This new facility, spanning 30,400 sq. m, is designed to support Delta's efforts in expanding production and enhancing the development of electric vehicle (EV) power electronics for customers worldwide. Establishing this factory and research center is part of Delta's strategy to meet the increasing demand in the EV market.
- February 2024 - TDK Corporation unveiled its latest MHQ1005075HA line of inductors designed for automotive high-frequency circuits. This new product maintains the same materials and construction techniques as its predecessor. Still, it incorporates TDK's unique design knowledge to enhance the internal structure, focusing on fail-safe design. The series comes in a 1005 size (1.0 mm x 0.5 mm x 0.7 mm - L x W x H) and offers inductance ranging from 1.0 nH to 56 nH.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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