

EMI Shielding Market Report by Material (EMI Shielding Tapes and Laminates, Conductive Coatings and Paints, Metal Shielding, Conductive Polymers, EMI/EMC Filters, and Others), Shielding Method (Radiation, Conduction), End-Use Industry (Consumer Electronics, Telecom and IT, Automotive, Healthcare, Defense and Aerospace, and Others), and Region 2025-2033

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Report description:

The global EMI shielding market size reached USD 7.6 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 11.1 Billion by 2033, exhibiting a growth rate (CAGR) of 4.2% during 2025-2033. The growing availability of 5G networks, increasing miniaturization of various electronic devices, and the rising utilization of various electronic devices in the healthcare industry around the world are some of the major factors propelling the market.

Electromagnetic interference (EMI) shielding refers to the process of reducing or blocking electromagnetic radiation or electromagnetic fields emitted by electronic devices. It is a crucial aspect of designing and manufacturing electronic devices and systems that prevents electronic devices from malfunctioning and permanent damage. It also helps to reduce this crosstalk and improves the overall performance of communication systems. Furthermore, it prevents data corruption in systems that store and process crucial information.

At present, the increasing demand for EMI shielding due to rapid industrialization and widespread utilization in consumer electronics is impelling the growth of the market. Besides this, the rising utilization of conductive coatings and paints offering EMI shielding for non-metallic surfaces and plastics in smartphones is contributing to the growth of the market. In addition, the growing integration of infotainment systems, hands-free features, and Bluetooth setups in various electronic devices to enhance their functionalities is offering a favorable market outlook. Apart from this, the rising implementation of stricter electromagnetic

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compatibility (EMC) standards by governing agencies of various countries to ensure electromagnetic compatibility and reduce interference is supporting the growth of the market. Additionally, the increasing utilization of EMI shielding in the aerospace and defense sector to protect various sensitive devices and systems from electromagnetic interference and maintain operational efficiency is bolstering the growth of the market.

EMI Shielding Market Trends/Drivers:

Rising availability of 5G technology

At present, the proliferation of data-intensive applications, such as video streaming, virtual reality (VR), augmented reality (AR), and the Internet of Things (IoT), is creating a need for faster and more reliable connectivity. 5G technology provides significantly higher data speeds, lower latency, and greater capacity compared to previous generations of wireless networks, which makes it well-suited to meet the demands of these applications. It also offers an improved mobile broadband experience by delivering faster download and upload speeds. This allows users to access and share large files more quickly, stream high-definition content seamlessly, and enjoy enhanced online gaming experiences, which is catalyzing the demand for EMI shielding around the world.

Increasing miniaturization of devices

At present, individuals have an increasing demand for portable and mobile electronic devices that can be easily carried and used on the go, which is growing the production of smaller and lightweight devices that are more convenient to carry in pockets, bags, or wearables. Miniaturization also enables the integration of multiple functions and features into a single device as electronic components become smaller and can accommodate more functionality into a compact form factor. It allows for faster processing speeds, higher memory capacities, and improved power efficiency, enabling more powerful and capable devices, which is further propelling the market growth.

Growing employment of healthcare electronics

The continuous advancements in medical technology are leading to the development of sophisticated electronic devices and equipment for healthcare applications. These devices, such as medical imaging systems, patient monitoring devices, diagnostic equipment, and wearable health trackers, play an important part in improving patient care, diagnosis, and treatment outcomes. The increasing adoption of these technologies is driving the employment of healthcare electronics. Apart from this, there is a growing demand for remote patient monitoring solutions, especially in situations wherein patients require continuous monitoring or are unable to visit healthcare facilities regularly. Electronic devices and wearable sensors can monitor vital signs, collect data, and transmit it to healthcare professionals in real time, enabling remote monitoring and timely intervention. This demand for remote patient monitoring solutions is contributing to the employment of EMI shielding.

EMI Shielding Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global EMI shielding market report, along with forecasts at the global, regional, and country levels from 2025-2033. Our report has categorized the market based on material, shielding method, and end-use industry.

Breakup by Material:

EMI Shielding Tapes and Laminates

Conductive Coatings and Paints

Metal Shielding

Conductive Polymers

EMI/EMC Filters

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Others

Conductive coatings and paints dominate the market

The report has provided a detailed breakup and analysis of the market based on the material. This includes EMI shielding tapes and laminates, conductive coatings and paints, metal shielding, conductive polymers, EMI/EMC filters, and others. According to the report, conductive coatings and paints represented the largest segment.

Conductive coatings and paints comprise conductive materials, typically metallic particles or carbon-based additives, which provide electrical conductivity to the coated surface. These coatings are designed to offer a range of electrical and functional properties, depending on the specific application requirements. They are used to provide electromagnetic interference (EMI) and radio frequency interference (RFI) shielding. They contain conductive materials that help prevent the leakage or absorption of electromagnetic waves, thereby protecting sensitive electronic components from external interference.

Breakup by Shielding Method:

Radiation
Conduction

Radiation holds the largest share of the market

A detailed breakup and analysis of the market based on the shielding method have also been provided in the report. This includes radiation and conduction. According to the report, radiation accounted for the largest market share.

Radiation shielding refers to the use of materials or barriers to reduce the transmission of harmful radiation. It involves the implementation of protective measures to limit or block the penetration of radiation, thereby reducing the potential risks to humans, equipment, and the environment.

Conduction shielding typically refers to techniques or methods used to prevent or reduce the transfer of heat or electricity through conduction in a specific system or material.

Breakup by End-Use Industry:

Consumer Electronics
Smartphones
Tablets
Television
Others
Telecom and IT
Automotive
Healthcare
Defense and Aerospace
Others

Consumer electronics hold the biggest share of the market

A detailed breakup and analysis of the market based on the end-user industry have also been provided in the report. This includes

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consumer electronics (smartphones, tablets, television, and others), telecom and IT, automotive, healthcare, defense and aerospace, and others. According to the report, consumer electronics accounted for the largest market share.

Consumer electronics are intended for personal use by individuals in their everyday lives. They comprise a wide range of devices, including smartphones, laptops, televisions, e-books, camcorders, digital cameras, and wearable devices, which help in lifestyle management. These devices are designed to enhance communication, entertainment, productivity, and convenience for consumers. Consumer electronics can range from small handheld gadgets to larger home appliances and entertainment systems. They allow people to stay connected with family, friends, and colleagues through calls, messaging, video chats, and social media platforms. These devices also provide access to the internet, facilitating information sharing, online collaboration, and access to a vast array of digital content.

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America exhibits a clear dominance, accounting for the largest EMI shielding market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa.

Asia Pacific held the biggest market share since the region is experiencing significant industrial and technological advancements. Besides this, the rising purchase of consumer electronics, including televisions (TVs), vacuum cleaners, air-conditioners (ACs), and refrigerators, is propelling the growth of the market.

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Another contributing aspect is the expansion of telecommunication networks and the deployment of advanced wireless technologies, such as 5G, which require robust EMI shielding solutions to maintain signal integrity, minimize interference, and ensure reliable communication.

North America is estimated to expand further in this domain due to the increasing employment of EMI shielding in protecting electronic systems from external electromagnetic threats that could potentially compromise data integrity and security. Besides this, the rising awareness about various EMI-related issues is bolstering the growth of the market.

Competitive Landscape:

Key market players are investing in research activities for developing innovative shielding materials and solutions. They are also striving to create products that offer better performance, higher conductivity, improved durability, and reduced weight and thickness. Top market players are focusing on leveraging advancements in technology to enhance their EMI shielding products. They are also incorporating new materials, such as conductive polymers, advanced alloys, and nanomaterials, into their product offerings. Leading companies are working closely with their customers to understand their specific needs and provide personalized solutions. They are also offering expertise in design and application engineering to help clients optimize EMI shielding performance, reduce costs, and improve product reliability.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

3M Company
Parker Chomerics (Parker Hannifin)
Dow Inc
ETS-Lindgren (ESCO Technologies Holding Inc.)
Henkel AG & Co. KGaA
Kitagawa Industries (Nitto Kogyo Corporation)
Laird Technologies Inc. (Advent International)
Leader Tech Inc. (HEICO Corporation)
PPG Industries
RTP Company (Miller Waste Mills Inc.)
Schaffner Holding AG
Tech-Etch Inc.

Key Questions Answered in This Report

1. How big is the EMI Shielding market?
2. What is the expected growth rate of the global EMI shielding market during 2025-2033?
3. What are the key factors driving the global EMI shielding market?
4. What has been the impact of COVID-19 on the global EMI shielding market?
5. What is the breakup of the global EMI shielding market based on the material?
6. What is the breakup of the global EMI shielding market based on the shielding method?
7. What is the breakup of the global EMI shielding market based on end-use industry?
8. What are the key regions in the global EMI shielding market?
9. Who are the key players/companies in the global EMI shielding market?

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