

Hermetic Packaging Market with COVID-19 impact by Configuration (Multilayer Ceramic Packages, Metal Can Packages, Pressed Ceramic Packages), Type (Ceramic-Metal Sealing, Glass-Metal Sealing), Application, Industry, and Region - Global Forecast to 2025

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Abstracts

“Hermetic packaging market to exhibit significant growth during 2020–2025”

The global hermetic packaging market size was valued at USD 3.5 billion in 2020 and is projected to reach USD 4.3 billion by 2025; it is expected to grow at a CAGR of 4.3% from 2020 to 2025. The growth of this market is attributed to the increasing use of hermetic packaging for protecting highly sensitive electronic components and increasing demand from industries such as aerospace and automotive electronics. However, factors such as stringent leak requirements for hermetic packaging and supply chain disruptions due to the COVID-19 pandemic are expected to restrain the market growth.

COVID-19 has emerged as a global pandemic that has spread across 215 countries worldwide and disrupted various industries around the world. The prominent players across industries have been affected by this pandemic. The foreseeable decline in the growth of end-user industries may have a considerable direct impact on the hermetic packaging market.

“Hermetic packaging market for multilayer ceramic packages to witness high-growth potential during the forecast period”

The multilayer design of the package helps package designers incorporate electrical

enhancements such as a large number of electrical feedthroughs within small spaces. Multilayer ceramic packages are widely adopted for high-frequency applications such as data communication, wireless communication, and optical communication because they offer better hermeticity than other configurations, and also enable a large number of electrical feedthroughs within very small spaces.

“The market for Ceramic-Metal Sealing (CERTM) to grow at highest CAGR during the forecast period”

CERTM exhibits very high electrical conductivity for conductor paths; this is essential for the transmittance of extremely high-frequency electrical signals. CERTM sealed sensors, such as heating, ventilation, and air conditioning (HVAC) sensors, chassis-level sensors, and proximity sensors find potential applications in the automotive industry as they assure the safety of passengers and enable failure-free operations. This factor is expected to propel the growth of the CERTM market during the forecast period.

“MEMS switches market to grow at highest CAGR during the forecast period “

Given that MEMS switches are mechanical, there is a critical requirement to support and protect the devices from thermal and mechanical shock, vibration, and other physical damage during storage and operation. Hermetic packaging helps MEMS switches to sustain even in environmental conditions such as high temperature and high mechanical stress. The increase in the demand for complete automatization of automobiles is the key factor driving the growth of the market for MEMS switches.

“APAC to be the largest market for hermetic packaging during the forecast period”

APAC is expected to lead the hermetic packaging market in terms of size, from 2020 to 2025. Increasing energy needs, emerging economies, and increasing defense spending are some of the factors driving the growth of this market in the region. In the last few years, the demand for hermetic packaging has significantly increased for the military & defense, aeronautics & space, automotive, and energy & nuclear safety industries. The rising military capabilities of emerging countries such as China, India, and South Korea are boosting the demand for hermetic packaging for sensitive electronic components. However, the implementation of lockdowns in several countries to contain the spread of COVID-19 has significantly affected the operations of end-use industries such as automotive, military & defense, aeronautics & space, due to which the market for hermetically packaged products is expected slowdown in 2020 in the Asia Pacific.

Break-up of the profiles of primary participants:

By Company Type – Tier 1 – 55%, Tier 2 – 20%, and Tier 3 – 25%

By Designation – C-level – 23%, Director-level – 59%, and Others – 18%

By Region – North America - 30%, Europe – 40%, APAC – 20%, and RoW – 10%

Key players in the market include SCHOTT (Germany), AMETEK, Inc. (US), Amkor Technology, Inc. (US), Texas Instruments Incorporated (US), Teledyne Technologies (US), Kyocera Corporation (Japan), Materion Corporation (US), Egide (France), Microcross Components Inc. (US), Legacy Technologies Inc. (US), Willow Technologies (UK), Renesas Electronics Corporation (US), SGA Technologies (UK), Complete Hermetics (US), Special Hermetic Products Inc. (US), Coat-X (Switzerland), Hermetics Solutions Group (US), StratEdge (US), Bel Fuse, Inc., ITT Inc. (US), Rosenberger (Germany), Mackin Technologies (US), Palomar Technologies (US), CeramTec (Germany), and Aptiv PLC - Winchester Interconnect (Ireland).

The global hermetic packaging market is segmented into the configuration, type, application, industry, and geography. The market based on configuration is segmented into pressed ceramic packages, multilayer ceramic packages, and metal can packages. Based on the types of materials, the hermetic packaging market has been split into passivation glass, reed glass, transponder glass, glass, and metal in combination (glass-metal sealing (GTMS)), and ceramic and metal in combination (ceramic-metal (CERTM) sealing). Based on the application, the market is segmented into transistors, sensors, lasers, airbag ignitors, photodiodes, oscillating crystals, MEMS switches, and others. Industries that are included in the study of the market include military & defense, aeronautics & space, automotive, energy nuclear safety, medical, telecommunications, consumer electronics, and others. The hermetic packaging industry is segmented into four regions—North America, Europe, Asia Pacific (APAC), and the Rest of the World (RoW).

Reasons to buy the report:

Illustrative segmentation, analysis, and forecast for markets based on configuration, type, application, industry, and region have been conducted to

give an overall view of the hermetic packaging market.

The value chain analysis has been performed to provide an in-depth insight into the hermetic packaging industry.

Major drivers, restraints, opportunities, and challenges pertaining to the hermetic packaging market have been detailed in this report.

Detailed information regarding the COVID-19 impact on the hermetic packaging market has been provided in the report.

The report includes a detailed competitive landscape along with key players, in-depth analysis, and revenue of key players.

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*Details on Business overview, Products offered, Recent developments, SWOT analysis & MnM View might not be captured in case of unlisted companies.

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About

According to the new market research report "Hermetic Packaging Market by Configuration (Multilayer Ceramic Packages, Metal Can Packages, Pressed Ceramic Packages), Type (Ceramic-Metal Sealing, Glass-Metal Sealing), Application, Industry, and Geography - Global Forecast to 2023", the overall hermetic packaging market is estimated at USD 3.25 Billion in 2018 and is expected to reach USD 4.52 Billion by 2023, growing at a CAGR of 6.80% between 2018 and 2023. The major factors driving the growth of the hermetic technology market include rising adoption of hermetic packaging for protecting highly sensitive electronic components and growing demand from industries such as automobile electronics and aerospace.

The present market is dominated by the players such as

SCHOTT AG (Germany)

Teledyne Microelectronics (US)

AMETEK. (US)

Texas Instruments (US)

Amkor Technology (US)

Micross Components (US)

Legacy Technologies Inc. (US)

KYOCERA Corporation (Japan)

Materion Corporation (US)

Willow Technologies (UK)

Multilayer ceramic packages are expected to lead the global hermetic packaging market between 2018 and 2023

Multilayer ceramic packages held a major market share in 2017 and is expected to grow at the highest rate between 2018 and 2023. The key factor driving this market is high adoption rate of the multilayer ceramic packages for high-frequency applications such as data communication, wireless communication, and optical communication because they offer better hermeticity than other configurations for high-frequency applications, and also enable a large number of electrical feedthroughs within small spaces.

The aeronautics and space industry is expected to grow at the highest rate between 2018 and 2023

There would be a significant rise in the hermetic packaging market for the aeronautics and space industry between 2018 and 2023. A high number of satellite launches, such as Matter Particle Explorer in December 2015 by China, is one of the key driving factors for the said market. In October 2015, Indian Space Research Organisation (ISRO) announced a joint venture with NASA and JAXA for initiating its own space observatory mission to get a closer look at the galaxies in the outer space. Significant interest for space research in the APAC countries, such as China and India, is expected to propel the market for the aeronautics and space industry in APAC.

The hermetic packaging market in APAC expected to capture the largest market share during the forecast period

The market in APAC is expected to grow at the highest CAGR between 2018 and 2023. The increasing energy needs backed by the high GDP growth rate in developing countries such as China and India is creating opportunities for the manufacturers of hermetically packaged components in APAC. Countries such as China, Japan, and India are now stepping up in space research. The contribution of these countries in space-related activities, such as satellite launches and space exploration missions, is also expected to propel the hermetic packaging market further.

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