

# Global Low Temperature Co-fired Ceramic (LTCC) Market Insights, Forecast to 2026

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## Abstracts

LTCC is a type of multilayer ceramic substrate that made by lower temperature (usually from 850 to 900?) firing process than general ceramic firing process by adding glass to alumina. It makes it possible to use low resistive conductor as conductor patterns in. Currently, the LTCC industry concentration is relatively high, there are approximately sixties producers distributed in the Japan, North America, Europe and China, and the top ten producers occupy for over 53% of global LTCC devices production. Japan is the largest producer and exporter in the world, over 50% of global LTCC devices, and the Murata, Kyocera, TDK, Taiyo Yuden, KOA Corporation and Yokowo, dominate the market for many years. The North America is the second producer in 2015; American Technical Ceramics and NEO Tech are the two most important producers in the America, and DuPont is a very important play in the LTCC tapes, which supplies LTCC tapes to most of the LTCC devices producers. The Europe also plays an important role in LTCC market, especially Germany and Finland; Bosch, IMST GmbH, MST, Via Electronic, and API Technologies (CMAC), are the most major manufacturers in Europe, these manufacturers mainly focus on the industrial areas, like automobile, communication, medical treatment, aviation and military fields etc. China is the largest consumer in the world; most of the electronic products are made in China, especially smartphone, computer, tablet, Television, and other electronic components. China consumes over 32% of the LTCC devices (LTCC Components, LTCC Substrates, LTCC Modules) in 2015, but most of the LTCC devices relies on import, from Japan. Globally, the production of LTCC devices was 39.6 billion in 2015, and it will reach 87.9 billion in 2021, thanks to the fast growing of the smartphones and electronic products in the world, especially in emerging market, like China, India and Southeast Asia regions. The production value of LTCC devices was approximately 2.55 billion in 2015, and it is expected than the production value will be 5.19 billion in 2021. In the future, the LTCC industry will keep a trend of rapid growth, due to the fast

growing of mobile internet in the world. The LTCC market space is huge, full of chances and challenges.

Since the COVID-19 virus outbreak in December 2019, the disease has spread to almost 100 countries around the globe with the World Health Organization declaring it a public health emergency. The global impacts of the coronavirus disease 2019 (COVID-19) are already starting to be felt, and will significantly affect the Low Temperature Co-fired Ceramic (LTCC) 4900 market in 2020.

COVID-19 can affect the global economy in three main ways: by directly affecting production and demand, by creating supply chain and market disruption, and by its financial impact on firms and financial markets.

The outbreak of COVID-19 has brought effects on many aspects, like flight cancellations; travel bans and quarantines; restaurants closed; all indoor events restricted; over forty countries state of emergency declared; massive slowing of the supply chain; stock market volatility; falling business confidence, growing panic among the population, and uncertainty about future.

This report also analyses the impact of Coronavirus COVID-19 on the Low Temperature Co-fired Ceramic (LTCC) 4900 industry.

Based on our recent survey, we have several different scenarios about the Low Temperature Co-fired Ceramic (LTCC) 4900 YoY growth rate for 2020. The probable scenario is expected to grow by a xx% in 2020 and the revenue will be xx in 2020 from US\$ 4027 million in 2019. The market size of Low Temperature Co-fired Ceramic (LTCC) 4900 will reach xx in 2026, with a CAGR of xx% from 2020 to 2026.

With industry-standard accuracy in analysis and high data integrity, the report makes a brilliant attempt to unveil key opportunities available in the global Low Temperature Co-fired Ceramic (LTCC) market to help players in achieving a strong market position.

Buyers of the report can access verified and reliable market forecasts, including those for the overall size of the global Low Temperature Co-fired Ceramic (LTCC) market in terms of both revenue and volume.

Players, stakeholders, and other participants in the global Low Temperature Co-fired Ceramic (LTCC) market will be able to gain the upper hand as they use the report as a powerful resource. For this version of the report, the segmental analysis focuses on sales (volume), revenue and forecast by each application segment in terms of sales and revenue and forecast by each type segment in terms of revenue for the period 2015-2026.

## Production and Pricing Analyses

Readers are provided with deeper production analysis, import and export analysis, and pricing analysis for the global Low Temperature Co-fired Ceramic (LTCC) market. As

part of production analysis, the report offers accurate statistics and figures for production capacity, production volume by region, and global production and production by each type segment for the period 2015-2026.

In the pricing analysis section of the report, readers are provided with validated statistics and figures for price by manufacturer and price by region for the period 2015-2020 and price by each type segment for the period 2015-2026. The import and export analysis for the global Low Temperature Co-fired Ceramic (LTCC) market has been provided based on region.

### Regional and Country-level Analysis

The report offers an exhaustive geographical analysis of the global Low Temperature Co-fired Ceramic (LTCC) market, covering important regions, viz, Japan, Europe, United States, South Korea and Taiwan. It also covers key countries (regions), viz, U.S., Canada, Germany, France, U.K., Italy, Russia, China, Japan, South Korea, India, Australia, Taiwan, Indonesia, Thailand, Malaysia, Philippines, Vietnam, Mexico, Brazil, Turkey, Saudi Arabia, UAE, etc.

The report includes country-wise and region-wise market size for the period 2015-2026. It also includes market size and forecast by each application segment in terms of volume for the period 2015-2026.

### Competition Analysis

In the competitive analysis section of the report, leading as well as prominent players of the global Low Temperature Co-fired Ceramic (LTCC) market are broadly studied on the basis of key factors. The report offers comprehensive analysis and accurate statistics on sales by the player for the period 2015-2020. It also offers detailed analysis supported by reliable statistics on price and revenue (global level) by player for the period 2015-2020.

On the whole, the report proves to be an effective tool that players can use to gain a competitive edge over their competitors and ensure lasting success in the global Low Temperature Co-fired Ceramic (LTCC) market. All of the findings, data, and information provided in the report are validated and revalidated with the help of trustworthy sources. The analysts who have authored the report took a unique and industry-best research and analysis approach for an in-depth study of the global Low Temperature Co-fired Ceramic (LTCC) market.

The following manufacturers are covered in this report:

Murata(JP)

Kyocera(JP)

TDK(JP)

Taiyo Yuden(JP)

KOA Corporation(JP)

Yokowo(JP)

Hitachi Metals(JP)

NIKKO(JP)

Soshin Electric(JP)

Bosch(DE)

IMST GmbH(DE)

MST(DE)

Via Electronic(DE)

Adamant(JP)

API Technologies(BE)

Selmic(FL)

VTT(FL)

American Technical Ceramics(US)

NEO Tech(US)

NTK Technologies(US)

Northrop Grumman(US)

Samsung Electro-Mechanics(KR)

PILKOR CND(KR)

ACX Corp(TW)

Yageo(TW)

Walsin Technology(TW)

Darfon Materials(TW)

Elit Fine Ceramics(TW)

Sunlord(CN)

CETC 43rd Institute(CN)

## Low Temperature Co-fired Ceramic (LTCC) Breakdown Data by Type

LTCC Components

LTCC Substrates

LTCC Module

Others

## Low Temperature Co-fired Ceramic (LTCC) Breakdown Data by Application

Consumer Electronics

Aerospace & Military

Automobile Electronics



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