

LTCC And HTCC Market Size, Share & Trends Analysis Report By Product (LTCC, HTCC), By Application (Automotive, Telecommunication, Aerospace & Defense, Consumer Electronics), By Region, And Segment Forecasts, 2021 - 2028

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Abstracts

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LTCC And HTCC Market Growth & Trends

The global LTCC And HTCC market size is expected to reach USD 3.9 billion by 2028, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 3.5% from 2021 to 2028. The market growth is attributable to rising investments in wireless communication technology along with increasing penetration of automotive electronics in vehicles. In co-fired ceramic devices, the ceramic support structure and any resistive, conductive, and dielectric materials are fired in a kiln. Typical devices include capacitors, resistors, inductors, transformers, and hybrid circuits. Cofired ceramic devices are also used for multi-layer packaging in the electronics industry, such as in military electronics, Micro Electromechanical Systems (MEMS), microprocessors, and RF applications.

Co-firing can be divided into Low Temperature Co-fired Ceramics (LTCC) and High Temperature Co-Fired Ceramics (HTCC) applications. In LTCC, the sintering temperature is below 900°C. This permits the co-firing with highly conductive materials (silver, copper, and gold). For HTCC, the sintering temperature is higher, at around 1,600°C. HTCC components generally consist of multilayers of alumina or zirconia with platinum, tungsten, and moly manganese metallization. Based on application, telecommunication is expected to be the fastest-growing segment in the market owing

to rising digitalization, expansion of 5G network, and booming e-commerce platform, which enables the use of wireless technologies and equipment within the telecommunication industry.

Growing trend of adopting online channels in daily life has fueled the demand for telecommunication products over the forecast period. Furthermore, growing investments in the aerospace and defense industry are proving to be fruitful for the growth of the market as LTCC substrates are extensively used in various aircraft and fighter jets. For instance, in January 2021, the Indian Air Force announced its plans to acquire 114 combat aircraft that would cost more than INR 1.3 lakh crore (~USD 173.1 million). Such investments are expected to increase the production of aircraft and in turn, augment the market growth.

Region-wise, Asia Pacific is anticipated to register the fastest growth rate over the forecast period. The region is a global manufacturing hub for electronics owing to the presence of several manufacturers of electronic devices and systems, including top players, as well as small- and medium-sized enterprises. The governments of different economies of the region focus on increasing foreign investments in their respective electronics industry, which in turn is expected to benefit market growth. The market is highly competitive in nature owing to the presence of numerous small and large players. Majority of the key players are mainly established in Japan. Key players are adopting strategies such as capacity expansions and investments in R&D activities to gain a higher share in the market.

LTCC And HTCC Market Report Highlights

Based on product, the LTCC segment held a share of over 73.0% of the overall market in 2020. Its high share is attributable to its superior characteristics and limited drawbacks compared to other technologies

Based on application, the telecommunication segment is anticipated to register the highest growth rate of 4.0% over the forecast period, owing to expansion of wireless communication technologies

Based on region, North America is expected to progress at a CAGR of 3.8% over the forecast period owing to growing need for automotive electronics in the region, which is attributable to rising production of EVs

LTCC is an evolving technology and thus gaining traction in various applications.

For example, in August 2021, Mini-Circuits developed a new series of filters based on LTCC technology that caters to the millimeter wave 5G industry. The company also received a patent for the same

Fluctuations have been witnessed in raw material pricing owing to an imbalance in the demand-supply scenario during the COVID-19 pandemic in 2020. Since the beginning of 2021, production has been affected too owing to an increase in energy and freight costs

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Sources & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Insights
- 2.2. Segmental Outlook

CHAPTER 3. LTCC AND HTCC MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Global LTCC And HTCC Market Outlook
- 3.2. Penetration & Growth Prospect Mapping
- 3.3. Industry Value Chain Analysis
 - 3.3.1. Raw Material Trends
 - 3.3.2. Sales Channel Analysis
 - 3.3.3. List of Prospective End-Users
- 3.4. Technology Overview
- 3.5. Regulatory Framework
- 3.6. Impact of COVID-19
- 3.7. Market Dynamics
 - 3.7.1. Market Driver Analysis
 - 3.7.2. Market Restraint Analysis
 - 3.7.3. Industry Challenges
 - 3.7.4. Industry Opportunities
- 3.8. Porter's Five Forces Analysis
 - 3.8.1. Supplier Power

- 3.8.2. Buyer Power
- 3.8.3. Substitution Threat
- 3.8.4. Threat from New Entrant
- 3.8.5. Competitive Rivalry
- 3.9. PESTEL Analysis
 - 3.9.1. Political Landscape
 - 3.9.2. Economic Landscape
 - 3.9.3. Social Landscape
 - 3.9.4. Technological Landscape
 - 3.9.5. Environmental Landscape
 - 3.9.6. Legal Landscape

CHAPTER 4. LTCC AND HTCC MARKET: PRODUCT OUTLOOK ESTIMATES & FORECASTS

- 4.1. Definition & Scope
- 4.2. LTCC And HTCC Market: Product Movement Analysis, 2020 & 2028
- 4.3. LTCC
 - 4.3.1. Market estimates and forecast, 2017 - 2028 (USD Million)
- 4.4. HTCC
 - 4.4.1. Market estimates and forecast, 2017 - 2028 (USD Million)

CHAPTER 5. LTCC AND HTCC MARKET: APPLICATION OUTLOOK ESTIMATES & FORECASTS

- 5.1. Definition & Scope
- 5.2. LTCC And HTCC Market: Application Movement Analysis, 2020 & 2028
- 5.3. Automotive
 - 5.3.1. Market estimates and forecast, 2017 - 2028 (USD Million)
- 5.4. Telecommunication
 - 5.4.1. Market estimates and forecast, 2017 - 2028 (USD Million)
- 5.5. Aerospace & Defense
 - 5.5.1. Market estimates and forecast, 2017 - 2028 (USD Million)
- 5.6. Consumer Electronics
 - 5.6.1. Market estimates and forecast, 2017 - 2028 (USD Million)
- 5.7. Others
 - 5.7.1. Market estimates and forecast, 2017 - 2028 (USD Million)

CHAPTER 6. LTCC AND HTCC MARKET REGIONAL OUTLOOK ESTIMATES &

FORECASTS

6.1. LTCC And HTCC Market: Regional Movement Analysis, 2020 & 2028

6.2. North America

6.2.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.2.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.2.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.2.4. U.S.

6.2.4.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.2.4.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.2.4.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.3. Europe

6.3.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.3.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.3.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.3.4. Germany

6.3.4.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.3.4.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.3.4.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.3.5. U.K.

6.3.5.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.3.5.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.3.5.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.3.6. France

6.3.6.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.3.6.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.3.6.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.4. Asia Pacific

6.4.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.4.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.4.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.4.4. China

6.4.4.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.4.4.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.4.4.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.4.5. India

6.4.5.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.4.5.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.4.5.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.4.6. Japan

6.4.6.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.4.6.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.4.6.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.5. Central & South America

6.5.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.5.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.5.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.5.4. Brazil

6.5.4.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.5.4.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.5.4.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

6.6. Middle East & Africa

6.6.1. Market estimates and forecast, 2017 - 2028 (USD Million)

6.6.2. Market estimates and forecast, by product, 2017 - 2028 (USD Million)

6.6.3. Market estimates and forecast, by application, 2017 - 2028 (USD Million)

CHAPTER 7. COMPETITIVE ANALYSIS

7.1. Recent Developments & Impact Analysis, By Key Market Participants

7.2. Company Categorization (Market Leaders, Emerging Players, Key Innovators)

7.3. Vendor Landscape

7.3.1. Company Market Ranking Analysis

7.3.2. Major Deals & Strategic Alliances

7.3.3. List of Raw Material Suppliers, Distributors, and Other Prominent Manufacturers

CHAPTER 8. COMPANY PROFILES

8.1. Hitachi Metals Ltd.

8.1.1. Company Overview

8.1.2. Financial Performance

8.1.3. Product Benchmarking

8.1.4. Strategic Initiatives

8.2. KOA Corporation

8.2.1. Company Overview

8.2.2. Financial Performance

8.2.3. Product Benchmarking

8.2.4. Strategic Initiatives

8.3. Kyocera Corporation

- 8.3.1. Company Overview
- 8.3.2. Financial Performance
- 8.3.3. Product Benchmarking
- 8.3.4. Strategic Initiatives
- 8.4. Maruwa Co. Ltd.
 - 8.4.1. Company Overview
 - 8.4.2. Financial Performance
 - 8.4.3. Product Benchmarking
 - 8.4.4. Strategic Initiatives
- 8.5. Micro Systems Technologies
 - 8.5.1. Company Overview
 - 8.5.2. Product Benchmarking
 - 8.5.3. Strategic Initiatives
- 8.6. Murata Manufacturing Co., Ltd.
 - 8.6.1. Company Overview
 - 8.6.2. Financial Performance
 - 8.6.3. Product Benchmarking
 - 8.6.4. Strategic Initiatives
- 8.7. NGK Spark Plug Ltd.
 - 8.7.1. Company Overview
 - 8.7.2. Financial Performance
 - 8.7.3. Product Benchmarking
 - 8.7.4. Strategic Initiatives
- 8.8. Nikko Company
 - 8.8.1. Company Overview
 - 8.8.2. Financial Performance
 - 8.8.3. Product Benchmarking
 - 8.8.4. Strategic Initiatives
- 8.9. TDK Corporation
 - 8.9.1. Company Overview
 - 8.9.2. Financial Performance
 - 8.9.3. Product Benchmarking
 - 8.9.4. Strategic Initiatives
- 8.10. Yokowo Co., Ltd.
 - 8.10.1. Company Overview
 - 8.10.2. Financial Performance
 - 8.10.3. Product Benchmarking
 - 8.10.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 2 LTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 3 HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 4 LTCC And HTCC market estimates and forecasts, by automotive, 2017 - 2028 (USD Million)

Table 5 LTCC And HTCC market estimates and forecasts, by telecommunication, 2017 - 2028 (USD Million)

Table 6 LTCC And HTCC market estimates and forecasts, by aerospace & defense, 2017 - 2028 (USD Million)

Table 7 LTCC And HTCC market estimates and forecasts, by consumer electronics, 2017 - 2028 (USD Million)

Table 8 LTCC And HTCC market estimates and forecasts, by others, 2017 - 2028 (USD Million)

Table 9 North America LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 10 North America LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 11 North America LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 12 U.S. LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 13 U.S. LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 14 U.S. LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 15 Europe LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 16 Europe LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 17 Europe LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 18 Germany LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 19 Germany LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 20 Germany LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 21 U.K. LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 22 U.K. LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 23 U.K. LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 24 France LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 25 France LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 26 France LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 27 Asia Pacific LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 28 Asia Pacific LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 29 Asia Pacific LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 30 China LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 31 China LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 32 China LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 33 Japan LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 34 Japan LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 35 Japan LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 36 India LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 37 India LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 38 India LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 39 Central & South America LTCC And HTCC market estimates and forecasts,

2017 - 2028 (USD Million)

Table 40 Central & South America LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 41 Central & South America LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 42 Brazil LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 43 Brazil LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 44 Brazil LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

Table 45 Middle East & Africa LTCC And HTCC market estimates and forecasts, 2017 - 2028 (USD Million)

Table 46 Middle East & Africa LTCC And HTCC market estimates and forecasts, by product, 2017 - 2028 (USD Million)

Table 47 Middle East & Africa LTCC And HTCC market estimates and forecasts, by application, 2017 - 2028 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 LTCC And HTCC market segmentation
- Fig. 2 Information procurement
- Fig. 3 Primary research pattern
- Fig. 4 Primary research process
- Fig. 5 Primary research approaches
- Fig. 6 LTCC And HTCC market - Segmental outlook
- Fig. 7 LTCC And HTCC market, 2017 - 2028 (USD Million)
- Fig. 8 Penetration & growth prospect mapping
- Fig. 9 LTCC And HTCC market - Value chain analysis
- Fig. 10 Market dynamics
- Fig. 11 Market driver analysis
- Fig. 12 Market restraint analysis
- Fig. 13 LTCC And HTCC market: Product movement analysis, 2020 & 2028 (%) (USD Million)
- Fig. 14 LTCC And HTCC market: Application movement analysis, 2020 & 2028 (%) (USD Million)
- Fig. 15 LTCC And HTCC market : Regional movement analysis, 2020 & 2028 (%) (USD Million)

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