

# **Global Passive Components Market: Analysis By Type (Capacitors, Resistors And Inductor), By Region Size And Trends With Impact Of COVID-19 And Forecast Up To 2027**

<https://marketpublishers.com/r/GA5CB4CCC7D7EN.html>

Date: December 2022

Pages: 155

Price: US\$ 2,250.00 (Single User License)

ID: GA5CB4CCC7D7EN

## **Abstracts**

The global passive components market in 2021 was valued at US\$35.69 billion. The market value is projected to reach US\$49.04 billion by 2027. Passive electronic components refer to electrical parts that do not generate power and are incapable of power gain. Passive electronic components absorb energy and do not require electrical power to operate.

The market is expected to grow at a CAGR of 5.44% during the forecast period of 2022-2027, with multilayer ceramic capacitors (MLCCs) being the dominant product and a key growth driver. Given the rising MLCC usage in various growing sectors and applications (e.g., 5G infrastructure, 5G SP, server/cloud, and automotive), it is expected to project secular growth in demand for overall passive components over the next five years.

### **Market Segmentation Analysis:**

**By Type:** The report provides the bifurcation of the market into three segments based on the type: capacitors, resistors and inductors. In 2021, capacitors segment held a major share in the market. The future of the capacitor market looks promising with opportunities in the computer, telecom, consumer electronics, automotive, and industrial sectors. On the other hand, the resistors segment is expected to grow at a significant CAGR in the forthcoming years owing to the growing demand for electronic devices among individuals.

**Capacitors By Type:** The report provides the bifurcation of the capacitors market into four segments based on the type: Ceramic MLCC, aluminum, tantalum and others. In 2021, Ceramic MLCC segment held a major share in the market. This was being followed by aluminum segment. Ceramic MLCCs are capable of achieving high capacitance and miniaturization in harsh environments. They can be fitted easily in narrow and unforgiving spaces. The increase in MLCC content per device in various end-applications such as smartphone (from 4G to 5G), PC (from standard to high-end platform), wearables, networking (from 4G to 5G), server (platform upgrade), and automobile (from conventional to EV) would boost the ceramic MLCC market growth in the coming years.

**Inductors By Application:** The report provides the bifurcation of the inductors market into five segments based on the application: communication, other communication, computing, auto and industrial & others. In 2021, communication segment held a major share in the market. Growing adoption of 5G smartphones facilitate many emerging technologies such as mobile payments, remote monitoring and controlling and many other technologies. Thus, with growing advancement in communication industry, the demand for inductors in communication field is expected to flourish during forecasted years.

**By Region:** The report provides insight into the passive components market based on the geographical operations, namely North America, Europe, Asia Pacific, and Rest of the world. Asia Pacific held the major share in the market, owing to rapid urbanization in the developing markets such as India and China which has surged the demand for passive components in the cities.

Within North America, the US is leading the market, due to rising demand for smart home devices, implementation of Industry 4.0, and rising environmental concerns over limiting carbon emissions. Whereas, in the Europe region, Germany is dominating the market due to growth in automotive sector.

#### Market Dynamics:

**Growth Drivers:** One of the most important factors impacting the global passive components market is consumers' desire for safer and faster-charging devices in consumer and automotive. The adoption of mobile phone with fast charging and automotive fast charging has been witnessing growth opportunity in the high-end passive components sector. As far as safety is concerned, the product quality requirement for charging is high and usually needs a long validation process. Therefore,

passive components with high-end characteristics of voltage, capacity, and reliability is anticipated to witness high demand in the EV charging market. Furthermore, the market has been growing over the past few years, due to factors such as surging demand for electronic vehicles, increased demand across various segments, rapid urbanization, growing demand for network devices, growing complexity of electronic devices and many other factors.

**Challenges:** However, the market has been confronted with some challenges specifically, increasing metal prices impacting the cost of producing components, etc.

**Trends:** The market is projected to grow at a fast pace during the forecast period, due to various latest trends such as the accelerating adoption of 5G smartphones, adoption of IoT devices, smart grid, miniaturization etc. Growing adoption of 5G smartphones facilitate many emerging technologies such as mobile payments, remote monitoring and controlling and many other technologies. The upcoming 5G services, coupled with a growing need for high-speed internet connectivity among consumers, have raised the demand for 5G devices across the globe. Thus, the significant increase in the demand for 5G devices from numerous verticals such as industrial, automotive, and consumer electronics is expected to boost the adoption of passive components during forecasted years.

#### Impact Analysis of COVID-19 and Way Forward:

The novel coronavirus pandemic and the resulting lockdowns have negatively impacted numerous manufacturing and service industries by hampering both the supply-side and demand-side supply chains. The passive component's raw materials supply chain is affected by supply disruptions caused by the COVID-19 outbreak. Proximity to production sites impacted by the pandemic (China and Taiwan) and volatile materials supply showcased that chip resistors are the largest red flag. Asia-Pacific countries, such as Malaysia, faced several closures of passive components production sites due to the rise in the COVID-19 outbreak. For instance, in June 2021, Bourns Magnetic Components announced the closure of its Malaysia production site, and no shipments will be made from the manufacturing factory due to the complete lockdown.

#### Competitive Landscape:

The passive components market is consolidated, where, TDK Corporation, Panasonic Corporation and Yageo Corporation are major market players. Japanese makers are leaders in many key passive component categories (e.g., MLCC, inductor, and film

capacitor).

The key players in the global passive components market are:

TDK Corporation

Panasonic Corporation

Eaton Corporation plc

Vishay Intertechnology, Inc.

Murata Manufacturing Co., Ltd

Kyocera Corporation

Taiyo Yuden Co. Ltd

Yageo Corporation

ROHM

Walsin Technology Corporation

KOA Corporation

TE Connectivity Ltd.

Some of the strategies among key players in the market for passive components market are mergers, acquisitions, and collaborations. For instance, in 2022, Vishay Intertechnology, Inc. introduced a new series of screw-terminal aluminum electrolytic capacitors that allow designers to pack more energy storage into less space. Available in 11 case sizes ranging from 35 mm by 60 mm to 90 mm by 220 mm. Whereas, Kyocera Corporation has developed a new thin-film process technology for making unique silicon (Si) substrates for gallium nitride (GaN)-based micro-light sources, including short-cavity lasers and micro-LEDs.

## Contents

### 1. EXECUTIVE SUMMARY

### 2. INTRODUCTION

#### 2.1 Passive Components: An Overview

##### 2.1.1 Definition of Passive Components

#### 2.2 Passive Components Segmentation: An Overview

##### 2.2.1 Passive Components Segmentation

### 3. GLOBAL MARKET ANALYSIS

#### 3.1 Global Passive Components Market: An Analysis

##### 3.1.1 Global Passive Components Market: An Overview

##### 3.1.2 Global Passive Components Market by Value

##### 3.1.3 Global Passive Components Market by Type (Capacitors, Resistors And Inductor)

##### 3.1.4 Global Passive Components Market by Region (Asia Pacific, Europe, North America and Rest of the World)

#### 3.2 Global Passive Components Market: Type Analysis

##### 3.2.1 Global Passive Components Market by Type: An Overview

##### 3.2.2 Global Capacitors Market by Value

##### 3.2.3 Global Capacitors Market by Type (Ceramic MLCC, Tantalum, Aluminum, Paper & Plastic Film And Other Capacitors)

##### 3.2.4 Global Resistors Market by Value

##### 3.2.5 Global Inductor Market by Value

##### 3.2.6 Global Inductor Market by Application (Communication, Industrial & Others, Computing, Auto And Other Communication)

#### 3.3 Global Capacitors Market: Type Analysis

##### 3.3.1 Global Capacitors Market By Type: An Overview

##### 3.3.2 Global Ceramic MLCC Capacitors Market By Value

##### 3.3.3 Global Aluminum Capacitors Market By Value

##### 3.3.4 Global Tantalum Capacitors Market By Value

##### 3.3.5 Global Paper & Plastic Film Capacitors Market By Value

##### 3.3.6 Global Other Capacitors Market By Value

#### 3.4 Global Inductor Market: Application Analysis

##### 3.4.1 Global Inductor Market By Application: An Overview

##### 3.4.2 Global Communication Passive Components Market By Value

- 3.4.3 Global Other Communication Passive Components Market By Value
- 3.4.4 Global Computing Passive Components Market By Value
- 3.4.5 Global Auto Passive Components Market By Value
- 3.4.6 Global Industrial and Others Passive Components Market By Value

## **4. REGIONAL MARKET ANALYSIS**

- 4.1 Asia Pacific Passive Components Market: An Analysis
  - 4.1.1 Asia Pacific Passive Components Market: An Overview
  - 4.1.2 Asia Pacific Passive Components Market by Value
  - 4.1.3 Asia Pacific Passive Components Market by Region (China, Japan, and Asia excluding China & Japan)
  - 4.1.4 China Passive Components Market by Value
  - 4.1.5 Asia excluding China & Japan Passive Components Market by Value
  - 4.1.6 Japan Passive Components Market by Value
- 4.2 Europe Passive Components Market: An Analysis
  - 4.2.1 Europe Passive Components Market: An Overview
  - 4.2.2 Europe Passive Components Market by Value
  - 4.2.3 Europe Passive Components Market by Region (Germany, Italy, United Kingdom, France and Rest of the Europe)
  - 4.2.4 Germany Passive Components Market by Value
  - 4.2.5 Italy Passive Components Market by Value
  - 4.2.5 United Kingdom Passive Components Market by Value
  - 4.2.6 France Passive Components Market by Value
  - 4.2.7 Rest of Europe Passive Components Market by Value
- 4.3 North America Passive Components Market: An Analysis
  - 4.3.1 North America Passive Components Market: An Overview
  - 4.3.2 North America Passive Components Market by Value
  - 4.3.3 North America Passive Components Market by Region (The US, Canada and Mexico)
  - 4.3.4 The US Passive Components Market by Value
  - 4.3.5 Canada Passive Components Market by Value
  - 4.3.6 Mexico Passive Components Market by Value
- 4.4 Rest of the World Passive Components Market: An Analysis
  - 4.4.1 Rest of the World Passive Components Market: An Overview
  - 4.4.2 Rest of the World Passive Components Market by Value

## **5. IMPACT OF COVID-19**

## 5.1 Impact of COVID-19

5.1.1 Impact of COVID-19 on Passive Components Market

5.1.2 Declining Motor Vehicle Production

5.1.3 Post COVID-19 Impact on Passive Components Market

## 6. MARKET DYNAMICS

### 6.1 Growth Drivers

6.1.1 Rapid Urbanization

6.1.2 Surging Demand for Electric vehicles

6.1.3 Rising Demand For Network Devices

6.1.4 Growing Complexity of Electronic Devices

6.1.5 Increased Demand Across Various Segments

6.1.6 Consumers' Desire For Safer And Faster-charging Devices In Consumer And Automotive

### 6.2 Challenges

6.2.1 Increasing Metal Prices Impacting the Cost of Producing Components

6.2.2 IC Supply Shortage

### 6.3 Market Trends

6.3.1 Accelerating Adoption of 5G Smartphones

6.3.2 Adoption of IoT Devices

6.3.3 Smart Grid

6.3.4 Miniaturization

## 7. COMPETITIVE LANDSCAPE

7.1 Global MLCC Capacitors Players by Market Share

7.2 Global Tantalum Capacitors Players by Market Share

7.3 Global Thin Film Capacitor Players by Market Share

7.4 Global Discrete Inductors Players by Market Share

7.5 Global R Chip Resistors Players by Market Share

7.6 Japan, Taiwan And China Inductor Market Players

## 8. COMPANY PROFILES

### 8.1 TDK Corporation

8.1.1 Business Overview

8.1.2 Business Segments

8.1.3 Business Strategy



- 8.2 Panasonic Corporation
  - 8.2.1 Business Overview
  - 8.2.2 Operating Segment
  - 8.2.3 Business Strategy
- 8.3 Eaton Corporation plc
  - 8.3.1 Business Overview
  - 8.3.2 Business Segments
  - 8.3.3 Business Strategy
- 8.4 Vishay Intertechnology, Inc.
  - 8.4.1 Business Overview
  - 8.4.2 Business Segment
  - 8.4.3 Business Strategy
- 8.5 Murata Manufacturing Co., Ltd.
  - 8.5.1 Business Overview
  - 8.5.2 Operating Segments
  - 8.5.3 Business Strategy
- 8.6 Kyocera Corporation
  - 8.6.1 Business Overview
  - 8.6.2 Operating Segments
  - 8.6.3 Business Strategy
- 8.7 Taiyo Yuden Co. Ltd
  - 8.7.1 Business Overview
  - 8.7.2 Net Sales by Market Sector
  - 8.7.3 Business Strategy
- 8.8 Yageo Corporation
  - 8.8.1 Business Overview
  - 8.8.2 Business Strategy
- 8.9 ROHM
  - 8.9.1 Business Overview
  - 8.9.2 Operating Segments
  - 8.9.3 Business Strategy
- 8.10 Walsin Technology Corporation
  - 8.10.1 Business Overview
  - 8.10.2 Operating Segments
- 8.11 KOA Corporation
  - 8.11.1 Business Overview
  - 8.11.2 Business Strategy
- 8.12 TE Connectivity Ltd.
  - 8.12.1 Business Overview



8.12.2 Operating Segments

8.12.3 Business Strategy

## List Of Figures

### LIST OF FIGURES

Figure 1: Applications of Passive Components

Figure 2: Passive Components Segmentation

Figure 3: Global Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 4: Global Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 5: Global Passive Components Market by Type; 2021 (Percentage, %)

Figure 6: Global Passive Components Market by Region; 2021 (Percentage, %)

Figure 7: Global Capacitors Market by Value; 2017-2021 (US\$ Billion)

Figure 8: Global Capacitors Market by Value; 2022-2027 (US\$ Billion)

Figure 9: Global Capacitors Market by Type; 2021 (Percentage, %)

Figure 10: Global Resistors Market by Value; 2017-2021 (US\$ Billion)

Figure 11: Global Resistors Market by Value; 2022-2027 (US\$ Billion)

Figure 12: Global Inductor Market by Value; 2017-2021 (US\$ Billion)

Figure 13: Global Inductor Market by Value; 2022-2027 (US\$ Billion)

Figure 14: Global Inductor Market by Application; 2021 (Percentage, %)

Figure 15: Global Ceramic MLCC Capacitors Market By Value; 2017-2021 (US\$ Billion)

Figure 16: Global Ceramic MLCC Capacitors Market By Value; 2022-2027 (US\$ Billion)

Figure 17: Global Aluminum Capacitors Market By Value; 2017-2021 (US\$ Billion)

Figure 18: Global Aluminum Capacitors Market By Value; 2022-2027 (US\$ Billion)

Figure 19: Global Tantalum Capacitors Market By Value; 2017-2021 (US\$ Billion)

Figure 20: Global Tantalum Capacitors Market By Value; 2022-2027 (US\$ Billion)

Figure 21: Global Paper & Plastic Film Capacitors Market By Value; 2017-2021 (US\$ Billion)

Figure 22: Global Paper & Plastic Film Capacitors Market By Value; 2022-2027 (US\$ Billion)

Figure 23: Global Other Capacitors Market By Value; 2017-2021 (US\$ Million)

Figure 24: Global Other Capacitors Market By Value; 2022-2027 (US\$ Million)

Figure 25: Global Communication Passive Components Market By Value; 2017-2021 (US\$ Million)

Figure 26: Global Communication Passive Components Market By Value; 2022-2027 (US\$ Million)

Figure 27: Global Other Communication Passive Components Market By Value; 2017-2021 (US\$ Million)

Figure 28: Global Other Communication Passive Components Market By Value; 2022-2027 (US\$ Million)

Figure 29: Global Computing Passive Components Market By Value; 2017-2021 (US\$

Million)

Figure 30: Global Computing Passive Components Market By Value; 2022-2027 (US\$ Million)

Figure 31: Global Auto Passive Components Market By Value; 2017-2021 (US\$ Million)

Figure 32: Global Auto Passive Components Market By Value; 2022-2027 (US\$ Million)

Figure 33: Global Industrial and Others Passive Components Market By Value; 2017-2021 (US\$ Million)

Figure 34: Global Industrial and Others Passive Components Market By Value; 2022-2027 (US\$ Million)

Figure 35: Asia Pacific Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 36: Asia Pacific Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 37: Asia Pacific Passive Components Market by Region; 2021 (Percentage, %)

Figure 38: China Passive Components Market by Value, 2017-2021 (US\$ Billion)

Figure 39: China Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 40: Asia excluding China & Japan Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 41: Asia excluding China & Japan Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 42: Japan Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 43: Japan Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 44: Europe Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 45: Europe Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 46: Europe Passive Components Market by Region; 2021 (Percentage, %)

Figure 47: Germany Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 48: Germany Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 49: Italy Passive Components Market by Value; 2017-2021 (US\$ Million)

Figure 50: Italy Passive Components Market by Value; 2022-2027 (US\$ Million)

Figure 51: United Kingdom Passive Components Market by Value; 2017-2021 (US\$ Million)

Figure 52: United Kingdom Passive Components Market by Value; 2022-2027 (US\$ Million)

Figure 53: France Passive Components Market by Value; 2017-2021 (US\$ Million)

Figure 54: France Passive Components Market by Value; 2022-2027 (US\$ Million)

Figure 55: Rest of Europe Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 56: Rest of Europe Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 57: North America Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 58: North America Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 59: North America Passive Components Market by Region; 2021 (Percentage, %)

Figure 60: The US Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 61: The US Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 62: Canada Passive Components Market by Value; 2017-2021 (US\$ Million)

Figure 63: Canada Passive Components Market by Value; 2022-2027 (US\$ Million)

Figure 64: Mexico Passive Components Market by Value; 2017-2021 (US\$ Million)

Figure 65: Mexico Passive Components Market by Value; 2022-2027 (US\$ Million)

Figure 66: Rest of the World Passive Components Market by Value; 2017-2021 (US\$ Billion)

Figure 67: Rest of the World Passive Components Market by Value; 2022-2027 (US\$ Billion)

Figure 68: Global Motor Vehicle Production; 2019-2021 (Million)

Figure 69: Developed Economies and Developing Economies Urban Population; 2015, 2020 & 2050 (Million)

Figure 70: Global Electric Vehicles Sales; 2017-2021 (Million)

Figure 71: Global 5G Smartphone Subscription; 2021-2027 (Billion)

Figure 72: Global Number of Active IoT Connections (Installed Base); 2017-2025 (Billion)

Figure 73: Global MLCC Capacitors Players by Market Share; 2021 (Percentage, %)

Figure 74: Global Tantalum Capacitors Players by Market Share; 2021 (Percentage, %)

Figure 75: Global Thin Film Capacitor Players by Market Share; 2021 (Percentage, %)

Figure 76: Global Discrete Inductors Players by Market Share; 2021 (Percentage, %)

Figure 77: Global R Chip Resistors Players by Market Share; 2021 (Percentage, %)

Figure 78: TDK Corporation Sales by Business Segments; 2022 (Percentage, %)

Figure 79: Panasonic Corporation Net Sales by Segment; 2021 (Percentage, %)

Figure 80: Eaton Corporation plc Net Sales by Business Segment; 2021 (Percentage, %)

Figure 81: Vishay Intertechnology, Inc. Net Revenues by Business Segments; 2021 (Percentage, %)

Figure 82: Murata Manufacturing Co., Ltd. Total Revenue by Operating Segments; 2021 (Percentage, %)

Figure 83: Kyocera Corporation Sales Revenue by Segment; 2022 (Percentage, %)

Figure 84: Taiyo Yuden Co. Ltd Net Sales by Market Sector; 2022 (Percentage, %)

Figure 85: ROHM Net Sales by Operating Segments; 2021 (Percentage, %)

Figure 86: Walsin Technology Corporation Net Sales by Operating Segments; 2021 (Percentage, %)

Figure 87: TE Connectivity Ltd. Net Sales by Operating Segments; 2022 (Percentage, %)

Table 1: Japan, Taiwan And China Inductor Market Players: Key Comparison

## I would like to order

Product name: Global Passive Components Market: Analysis By Type (Capacitors, Resistors And Inductor), By Region Size And Trends With Impact Of COVID-19 And Forecast Up To 2027

Product link: <https://marketpublishers.com/r/GA5CB4CCC7D7EN.html>

Price: US\$ 2,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GA5CB4CCC7D7EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970