

# Global Ceramic Composite Resistor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Ceramic Composite Resistor market size is expected to reach \$ 156 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

Ceramic Composite Resistors consist of a mixture of finely ground insulators and conductors, compressed into a cylindrical shape. Connect the terminals and apply an insulating coating to the outer body of the resistor. Resistance is controlled by the ratio of insulator to conductor mixture. In 2025, global Ceramic Composite Resistors production reached approximately 136.76 K Units. The upstream segment of the Ceramic Composite Resistor industry mainly consists of suppliers of ceramic powders, conductive materials, and encapsulation materials. Key raw materials include alumina (Al<sub>2</sub>O<sub>3</sub>), zirconium silicate, conductive carbon powders, metal oxides, silver paste, and insulating coating materials. These materials determine the resistor's high-voltage resistance, pulse endurance capability, thermal stability, and long-term reliability. Downstream applications are primarily concentrated in high-power, high-voltage, and high-reliability sectors, including industrial power supplies, electric vehicles, power electronics, rail transit, energy storage systems, medical high-voltage equipment, RF communication systems, and aerospace & defense industries.

The Ceramic Composite Resistor market represents a specialized yet technologically demanding segment within the passive electronic components industry, primarily serving high-voltage, high-pulse, high-power, and high-reliability applications. Compared with conventional thick-film, thin-film, and standard wirewound resistors, ceramic composite resistors offer superior surge endurance, lower parasitic inductance, and enhanced thermal stability, making them particularly suitable for industrial power electronics, electric vehicles, rail transit, energy storage systems, medical high-voltage

equipment, and aerospace & defense applications. In recent years, the adoption of 800V EV architectures, the expansion of energy storage inverter installations, the upgrading of industrial automation systems, and the rapid growth of high-frequency high-voltage power systems have significantly increased demand for high-reliability and high-pulse-load resistors, supporting steady market growth for ceramic composite resistors.

This report studies the global Ceramic Composite Resistor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ceramic Composite Resistor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ceramic Composite Resistor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ceramic Composite Resistor total production and demand, 2021-2032, (K Units)

Global Ceramic Composite Resistor total production value, 2021-2032, (USD Million)

Global Ceramic Composite Resistor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ceramic Composite Resistor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ceramic Composite Resistor domestic production, consumption, key domestic manufacturers and share

Global Ceramic Composite Resistor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ceramic Composite Resistor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ceramic Composite Resistor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ceramic Composite Resistor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include KOA Corporation, Ohmite, TE Connectivity, HVR International, JDC Resistors, KWX Electronics, Thunder Precision, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ceramic Composite Resistor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ceramic Composite Resistor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ceramic Composite Resistor Market, Segmentation by Type:

Less than 2W

2-5W

Above 5W

## Global Ceramic Composite Resistor Market, Segmentation by Power Rating:

Low Power (500W)

## Global Ceramic Composite Resistor Market, Segmentation by Structure:

Rod Type

Tubular Type

Disc Type

Others

## Global Ceramic Composite Resistor Market, Segmentation by Function:

Surge Protection

Braking Resistor

Discharge Resistor

High-Voltage Limiting

Others

## Global Ceramic Composite Resistor Market, Segmentation by Application:

Industrial Power & Switchgear

Rail & Charging Infrastructure

Medical High-Voltage Equipment

Scientific & Accelerator Equipment

EV & Power Electronics

Others

#### Companies Profiled:

KOA Corporation

Ohmite

TE Connectivity

HVR International

JDC Resistors

KWX Electronics

Thunder Precision

#### Key Questions Answered:

1. How big is the global Ceramic Composite Resistor market?
2. What is the demand of the global Ceramic Composite Resistor market?
3. What is the year over year growth of the global Ceramic Composite Resistor market?
4. What is the production and production value of the global Ceramic Composite Resistor market?
5. Who are the key producers in the global Ceramic Composite Resistor market?
6. What are the growth factors driving the market demand?

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