

Global Ceramic Positive Temperature Coefficient (PTC) Thermistors Market Growth 2025-2031

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Abstracts

The global Ceramic Positive Temperature Coefficient (PTC) Thermistors market size is predicted to grow from US\$ 312 million in 2025 to US\$ 424 million in 2031; it is expected to grow at a CAGR of 5.2% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

CPTC Ceramic Positive Temperature Coefficient Thermistor (ceramic positive temperature coefficient thermistor) is a kind of thermistor designed with semiconductor ceramic materials. The main material is barium carbonate, and a small amount of rare earth, recipient elements and additives such as glass are added. Semiconductor resistors with temperature sensitivity are formed through high-temperature sintering. It has a small resistance below the Curie temperature. When the temperature exceeds the Curie temperature, the resistance value increases step by step with the rise in temperature. It is used for overheat sensing in circuits and plays a role in overheat and overcurrent protection.

The market size continues to expand

With the rapid development of industries such as electronics, communications, automobiles, and home appliances, the demand for ceramic PTC thermistors is constantly increasing. Especially in emerging fields such as new energy vehicles, 5G communications, and the Internet of Things, the application prospects of ceramic PTC thermistors are broad. It is predicted that the global PTC thermistor market sales will continue to grow. As one of the world's largest consumer markets, China's market size

will also keep expanding.

Technological innovation promotes industrial upgrading

Material innovation: With the continuous research and application of new materials, the performance of ceramic PTC thermistors will be further enhanced. For instance, by improving the formula and process of ceramic materials, the temperature resistance range, accuracy and stability of PTC thermistors can be enhanced.

Structural design innovation: By optimizing the structural design of PTC thermistors, their heat dissipation performance can be improved, power consumption can be reduced, and reliability can be enhanced.

Intelligence and integration: With the development of technologies such as the Internet of Things and intelligent manufacturing, ceramic PTC thermistors will move towards intelligence and integration. For instance, PTC thermistors are integrated with sensors, controllers and other components to form an intelligent temperature control system.

The application fields are constantly expanding

New energy vehicles: With the popularization of new energy vehicles, the application of ceramic PTC thermistors in battery management systems and air conditioning systems will become more widespread. Especially in terms of battery thermal management, PTC thermistors can monitor the battery temperature in real time and control the heating or cooling system to ensure that the battery operates under safe and efficient conditions.

5G communication: 5G communication equipment has extremely high requirements for heat dissipation performance. Ceramic PTC thermistors can be used as temperature control components to monitor and control the temperature of the equipment in real time, ensuring the stable operation of the equipment.

Smart Home: In the field of smart home, ceramic PTC thermistors can be used in smart temperature control systems, smart security systems, and other aspects, enhancing the comfort and security of the home.

In the field of industrial control, ceramic PTC thermistors can be used in motor protection, temperature monitoring and other aspects to ensure the stable operation of industrial equipment.

Changes in the market competition pattern

International competition: With the integration of the global market and the intensification of competition, the ceramic PTC thermistor industry will face even more intense international competition. Domestic enterprises need to constantly improve their technological level and product quality, and actively explore the international market.

Industrial chain integration: To reduce costs and enhance efficiency, the ceramic PTC thermistor industry will accelerate industrial chain integration. Through the cooperation and synergy of upstream and downstream enterprises, a complete industrial chain ecosystem is formed to enhance the competitiveness of the entire industry.

LP Information, Inc. (LPI) ' newest research report, the "Ceramic Positive Temperature Coefficient (PTC) Thermistors Industry Forecast" looks at past sales and reviews total world Ceramic Positive Temperature Coefficient (PTC) Thermistors sales in 2024, providing a comprehensive analysis by region and market sector of projected Ceramic Positive Temperature Coefficient (PTC) Thermistors sales for 2025 through 2031. With Ceramic Positive Temperature Coefficient (PTC) Thermistors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ceramic Positive Temperature Coefficient (PTC) Thermistors industry.

This Insight Report provides a comprehensive analysis of the global Ceramic Positive Temperature Coefficient (PTC) Thermistors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ceramic Positive Temperature Coefficient (PTC) Thermistors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ceramic Positive Temperature Coefficient (PTC) Thermistors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ceramic Positive Temperature Coefficient (PTC) Thermistors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ceramic Positive Temperature Coefficient (PTC) Thermistors.

This report presents a comprehensive overview, market shares, and growth opportunities of Ceramic Positive Temperature Coefficient (PTC) Thermistors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Heating Type

Overcurrent Protection Type

Inrush Current Suppression Type

Sensor Type

Motor Starting Type

Others

Segmentation by Application:

Communication and Network Equipment

Computers and Peripherals

Industrial

Automobile

Consumer Electronics

Household Appliances

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

TDK(EPCOS)

VISHAY(Bccomponent)

Murata

THINKING

Huagong Gaoli Electronic

Shenzhen Ampron Technology

Haining Yongli Electronic

Eberspaecher

WAYON

Chengdu Shunkang Sansen Electronics

ZHONGHAO ELECTRONICS

Chengdu Hongming Electronics

Dandong Guotong Electronic Components

Nichicon

Xinpa

SYNTEC TECHNOLOGY

Huaju Electronics

Jiangsu Xinlinzhi Electronic Technology

Suzhou Xinye Electronic

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ceramic Positive Temperature Coefficient (PTC) Thermistors market?

What factors are driving Ceramic Positive Temperature Coefficient (PTC) Thermistors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ceramic Positive Temperature Coefficient (PTC) Thermistors market opportunities vary by end market size?

How does Ceramic Positive Temperature Coefficient (PTC) Thermistors break out by Type, by Application?

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