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Global CPTC Thermistor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CPTC Thermistor market size was valued at US$ 826 million in 2025 and is forecast to a readjusted size of US$ 1173 million by 2032 with a CAGR of 5.2% during review period.

In 2024, global CPTC Ceramic Positive Temperature Coefficient Thermistor production reached approximately 36600 Million units, with an average global market price of around US$ 20.55 per k unit. 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.

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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

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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.

This report is a detailed and comprehensive analysis for global CPTC Thermistor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global CPTC Thermistor market size and forecasts, in consumption value ($ Million), sales quantity (Million Pcs), and average selling prices (US$/Pcs), 2021-2032

Global CPTC Thermistor market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Pcs), and average selling prices (US$/Pcs), 2021-2032

Global CPTC Thermistor market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Pcs), and average selling prices (US$/Pcs), 2021-2032

Global CPTC Thermistor market shares of main players, shipments in revenue ($ Million), sales quantity (Million Pcs), and ASP (US$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

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To assess the growth potential for CPTC Thermistor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global CPTC Thermistor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TDK?EPCOS?, VISHAY(Bccomponent), Murata, THINKING, Huagong Gaoli Electronic, Shenzhen Ampron Technology, Haining Yongli Electronic, Eberspaecher, WAYON, Chengdu Shunkang Sansen Electronics, etc.

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

Market Segmentation

CPTC Thermistor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Heating Type

Overcurrent Protection Type

Inrush Current Suppression Type

Sensor Type

Motor Starting Type

Others

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Market segment by Application

- Communication and Network Equipment
- Computers and Peripherals
- Industrial
- Automobile
- Consumer Electronics
- Household Appliances
- Other

Major players covered

- TDK?EPCOS?
- VISHAY(Bccomponent)
- Murata
- THINKING
- Huagong Gaoli Electronic
- Shenzhen Ampron Technology
- Haining Yongli Electronic
- Eberspaecher
- WAYON
- Chengdu Shunkang Sansen Electronics

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ZHONGHAO ELECTRONICS

Chengdu Hongming Electronics

Dandong Guotong Electronic Components

Nichicon

Xinpa

SYNTEC TECHNOLOGY

Huaju Electronics

Jiangsu Xinlinzhi Electronic Technology

Suzhou Xinye Electronic

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe CPTC Thermistor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CPTC Thermistor, with price, sales

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quantity, revenue, and global market share of CPTC Thermistor from 2021 to 2026.

Chapter 3, the CPTC Thermistor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CPTC Thermistor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and CPTC Thermistor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of CPTC Thermistor.

Chapter 14 and 15, to describe CPTC Thermistor sales channel, distributors, customers, research findings and conclusion.

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