

Global Positive Temperature Coefficient (PTC) Thermistors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Positive Temperature Coefficient (PTC) Thermistors market size was valued at US\$ 11370 million in 2024 and is forecast to a readjusted size of USD 21190 million by 2031 with a CAGR of 9.4% during review period.

PTC stands for Positive Temperature Coefficient. PTC thermistors are ceramic components whose electrical resistance rapidly increases when a certain temperature is exceeded. This property makes them ideal for use in countless applications of modern electrical and electronic engineering, for example, as self-resetting fuses against current overload or for short circuit protection in motors. PTC thermistors are used in electronic lamp ballasts and switch-mode power supplies for delayed switching. Special motor-start PTC thermistors are also used in refrigerator compressors, for instance. Ceramic PTC (CPTC) and Polymer PTC (PPTC) are two types based on production technology, and both are covered by data in this report.

Global manufacturers of Positive Temperature Coefficient (PTC) Thermistors include Littelfuse(Tyco), Polytronics, Wayon, Bourns, Fuzetec, Sea & Land and Keter and etc. And the top five manufacturers account for about 71% of the market share. Asia-Pacific is the largest market with a share of about 65%, followed by North America and Europe with 17% and 16% respectively. In terms of product type, PPTC is the largest segment, accounting for about 75% of the share. And in terms of application, Telecom/Datacom Infrastructure is the largest downstream field, accounting for 22% of the share.

This report is a detailed and comprehensive analysis for global Positive Temperature Coefficient (PTC) Thermistors market. Both quantitative and qualitative analyses are

presented by manufacturers, by region & country, by Technology 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 Positive Temperature Coefficient (PTC) Thermistors market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (USD/K Units), 2020-2031

Global Positive Temperature Coefficient (PTC) Thermistors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (USD/K Units), 2020-2031

Global Positive Temperature Coefficient (PTC) Thermistors market size and forecasts, by Technology and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (USD/K Units), 2020-2031

Global Positive Temperature Coefficient (PTC) Thermistors market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (USD/K Units), 2020-2025

The Primary Objectives in This Report Are:

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

To assess the growth potential for Positive Temperature Coefficient (PTC) Thermistors

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 Positive Temperature Coefficient (PTC) Thermistors 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

Littelfuse(Tyco), Polytronics, Wayon, Bourns, Fuzetec, Sea & Land, Keter, Eaton, TDK(EPCOS), VISHAY, etc.

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

Market Segmentation

Positive Temperature Coefficient (PTC) Thermistors market is split by Technology and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Technology, 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 Technology

CPTC

PPTC

Market segment by Application

Computers/Peripherals

Telecom/Datacom Infrastructure

Consumer Electronics

Home Appliance

Automotive

Industrial

Other

Major players covered

Littelfuse(Tyco)

Polytronics

Wayon

Bourns

Fuzetec

Sea & Land

Keter

Eaton

TDK(EPCOS)

VISHAY

Amphenol(GE SENSING)

Jinke

MURATA

Thinking

HIEL

HGTECH

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 Positive Temperature Coefficient (PTC) Thermistors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Positive Temperature Coefficient (PTC) Thermistors, with price, sales quantity, revenue, and global market share of Positive Temperature Coefficient (PTC) Thermistors from 2020 to 2025.

Chapter 3, the Positive Temperature Coefficient (PTC) Thermistors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Positive Temperature Coefficient (PTC) Thermistors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Technology and by Application, with sales market share and growth rate by Technology, by Application, from 2020 to 2031.

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 2020 to 2025. and Positive Temperature Coefficient (PTC) Thermistors market forecast, by regions, by Technology, and by Application, with sales and revenue, from 2026 to 2031.

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 Positive Temperature Coefficient (PTC) Thermistors.

Chapter 14 and 15, to describe Positive Temperature Coefficient (PTC) Thermistors

sales channel, distributors, customers, research findings and conclusion.

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