

Global NTC Thermistors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global NTC Thermistors market size was valued at USD 642.7 million in 2023 and is forecast to a readjusted size of USD 773.9 million by 2030 with a CAGR of 2.7% during review period.

An NTC (Negative Temperature Coefficient) thermistor is a ceramic semiconductor made with various metal oxides. Their electrical resistance decreases with increasing temperature. A typical temperature range for existing ceramic negative temperature coefficient (NTC) thermistors is -80 degrees C to +300 degrees C. This resistance is processed by an electronic circuit to provide temperature measurement. The thermistor itself does not provide any control over heating elements, relays, etc. The thermistor is strictly a sensor and any electrical control would need to be implemented by the circuit utilizing the thermistor.

Conventional ceramic NTC thermistors have been employed in the marketplace for over 70 years; and dominate the thermistor market. The ceramic thermistors are comprised of a metal oxide mix annealed at high temperatures. Companies around the world have used this ceramic technology to produce billions of thermistors annually. Typically, NTC thermistor is the most popular and economic solution for various fields such as home appliance, automotive, telecommunication, computer, medical instruments, industrial sites, etc.

NTC (Negative Temperature Coefficient) Thermistors market is relatively fragmented with fierce competition. Thinking Electronic is the world leading player in global NTC Thermistors market with the market share of 16%, in terms of revenue, followed by Shibaura, TDK, Semitec Corporation, Mitsubishi, Vishay, Shiheng Electronics, AVX,

Murata and Panasonic. The top 10 listed companies accounted for 69% of the revenue market share.

The penetration of NTC Thermistors has risen over the past few years in applications ranging from consumer electronics to automotive. Asia Pacific is the largest downstream regions, occupied about 71% of market share, in terms of volume.

The classification of Negative Temperature Coefficient Thermistor include Radial Type, Diode Type, Wire Bonding Type, Film Type, SMD Type, Wire Type and Chip in Glass Type. The market share of SMD Type is about 26%.

Negative Temperature Coefficient Thermistor's application are Consumer Electronics, Medical Instruments, Automotive, Home Appliance, Industrial Equipment, Aerospace & Defense and Others. The most proportion of Negative Temperature Coefficient Thermistor are 30% market shares.

The Global Info Research report includes an overview of the development of the NTC Thermistors industry chain, the market status of Consumer Electronics (Radial Type, Diode Type), Medical Instruments (Radial Type, Diode Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of NTC Thermistors.

Regionally, the report analyzes the NTC Thermistors markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global NTC Thermistors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the NTC Thermistors market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the NTC Thermistors industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (M Pcs), revenue generated, and market share of different

by Type (e.g., Radial Type, Diode Type).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the NTC Thermistors market.

Regional Analysis: The report involves examining the NTC Thermistors market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the NTC Thermistors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to NTC Thermistors:

Company Analysis: Report covers individual NTC Thermistors manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards NTC Thermistors This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Medical Instruments).

Technology Analysis: Report covers specific technologies relevant to NTC Thermistors. It assesses the current state, advancements, and potential future developments in NTC Thermistors areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the NTC Thermistors market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

NTC Thermistors market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Radial Type

Diode Type

Wire Bonding Type

Film Type

SMD Type

Wire Type

Chip in Glass Type

Market segment by Application

Consumer Electronics

Medical Instruments

Automotive

Home Appliance

Industrial Equipment

Aerospace & Defense

Others

Major players covered

Thinking Electronic

Shibaura

TDK

Semitec Corporation

Mitsubishi

Vishay

Shiheng Electronics

AVX

Murata

Panasonic

Fenghua Electronics

Lattron

TE Connectivity

Ametherm

Amphenol Advanced Sensors

Littelfuse

Sinochip Electronics

E WAY Technology

EXSENSE Electronic

Tewa Temperature Sensors

TAYAO Technology

JOYIN

Elscott Manufacturing

KOA

Sen Tech

Mingjia Electric

Zhengli Group

UNIX TECH

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 NTC Thermistors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of NTC Thermistors, with price, sales, revenue and global market share of NTC Thermistors from 2019 to 2024.

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

Chapter 4, the NTC Thermistors breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and NTC Thermistors market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 NTC Thermistors.

Chapter 14 and 15, to describe NTC Thermistors sales channel, distributors, customers, research findings and conclusion.

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