

# Global Negative Temperature Coefficient Thermistor Market Growth 2024-2030

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## Abstracts

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According to our LPI (LP Information) latest study, the global Negative Temperature Coefficient Thermistor market size was valued at US\$ 611 million in 2023. With growing demand in downstream market, the Negative Temperature Coefficient Thermistor is forecast to a readjusted size of US\$ 747.2 million by 2030 with a CAGR of 2.9% during review period.

The research report highlights the growth potential of the global Negative Temperature Coefficient Thermistor market. Negative Temperature Coefficient Thermistor are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Negative Temperature Coefficient Thermistor. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Negative Temperature Coefficient Thermistor market.

An NTC 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 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.

#### Key Features:

The report on Negative Temperature Coefficient Thermistor market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Negative Temperature Coefficient Thermistor market. It may include historical data, market segmentation by Type (e.g., Radial Type, Diode Type), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Negative Temperature Coefficient Thermistor market, such as government regulations, environmental concerns, technological advancements, and

changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Negative Temperature Coefficient Thermistor market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Negative Temperature Coefficient Thermistor industry. This include advancements in Negative Temperature Coefficient Thermistor technology, Negative Temperature Coefficient Thermistor new entrants, Negative Temperature Coefficient Thermistor new investment, and other innovations that are shaping the future of Negative Temperature Coefficient Thermistor.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Negative Temperature Coefficient Thermistor market. It includes factors influencing customer ' purchasing decisions, preferences for Negative Temperature Coefficient Thermistor product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Negative Temperature Coefficient Thermistor market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Negative Temperature Coefficient Thermistor market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Negative Temperature Coefficient Thermistor market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Negative Temperature Coefficient Thermistor industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and

contribute to the growth and development of the Negative Temperature Coefficient Thermistor market.

#### Market Segmentation:

Negative Temperature Coefficient Thermistor 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.

#### Segmentation by type

Radial Type

Diode Type

Wire Bonding Type

Film Type

SMD Type

Wire Type

Chip in Glass Type

#### Segmentation by application

Consumer Electronics

Medical Instruments

Automotive

Home Appliance

Industrial Equipment

Aerospace & Defense

Others

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 analyzing the company's coverage, product portfolio, its market penetration.

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

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Negative Temperature Coefficient Thermistor market?

What factors are driving Negative Temperature Coefficient Thermistor market growth, globally and by region?

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

How do Negative Temperature Coefficient Thermistor market opportunities vary by end market size?

How does Negative Temperature Coefficient Thermistor break out type, application?



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