

Global Silicon Thermistor Market Growth 2026-2032

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Abstracts

The global Silicon Thermistor market size is predicted to grow from US\$ 92.93 million in 2025 to US\$ 145 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

A silicon thermistor is a thermistor element that uses silicon semiconductor material as the temperature-sensitive medium. Its resistance changes in a regular and predictable manner with temperature, and it typically exhibits a positive temperature coefficient characteristic.

This type of device can be used in temperature measurement, temperature compensation, over-temperature protection, circuit bias compensation, battery management, automotive electronics, industrial control, consumer electronics, and communication equipment.

Compared with traditional NTC thermistors, silicon thermistors usually offer better linearity, long-term stability, batch-to-batch consistency, and compatibility with semiconductor manufacturing processes. Compared with platinum resistance temperature detectors, they generally offer advantages in cost and ease of integration, although they typically do not fully replace platinum RTDs in high-precision and high-temperature-range applications.

Silicon thermistors are a steadily growing segment within a mature industry. They are not an explosive emerging market, but they still have stable growth potential, driven by demand from automotive electronics, battery management, energy storage, charging piles, servers, power modules, and industrial automation.

From the perspective of substitution and competition, silicon thermistors mainly compete with NTC thermistors, ceramic PTC thermistors, RTDs, and integrated

temperature sensor ICs. Their advantages lie in linearity, stability, consistency, and compatibility with semiconductor manufacturing processes. Their disadvantages are that market awareness and the number of suppliers are generally not as broad as those of NTC thermistors.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Thermistor Industry Forecast" looks at past sales and reviews total world Silicon Thermistor sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Thermistor sales for 2026 through 2032. With Silicon Thermistor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Thermistor industry.

This Insight Report provides a comprehensive analysis of the global Silicon Thermistor 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 Silicon Thermistor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Thermistor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Thermistor and breaks down the forecast by Temperature Range, 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 Silicon Thermistor.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Thermistor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Temperature Range:

Standard Temperature Range

Wide Temperature Range

High Temperature Range

Low Temperature Range

Segmentation by Temperature Coefficient:

Silicon PTC Thermistor

Silicon NTC-like Temperature Sensor

Segmentation by Resistance Value:

Low Resistance

Medium Resistance

High Resistance

Segmentation by Application:

Consumer Electronics

Energy & Battery

Automobile

Home Appliances

Industrial Equipment

Telecom & Data Center

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.

Texas Instruments

NXP Semiconductors

AMWEI Thermistor Sensor

FocuSens

Dongguan Ampfort Electronics Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Thermistor market?

What factors are driving Silicon Thermistor market growth, globally and by region?

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

How do Silicon Thermistor market opportunities vary by end market size?

How does Silicon Thermistor break out by Temperature Range, by Application?

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