

Global Automotive Grade Chip NTC Thermistors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G381F1D24E52EN.html>

Date: August 2026

Pages: 138

Price: US\$ 3,480.00 (Single User License)

ID: G381F1D24E52EN

Abstracts

According to our (Global Info Research) latest study, the global Automotive Grade Chip NTC Thermistors market size was valued at US\$ 99 million in 2025 and is forecast to a readjusted size of US\$ 166 million by 2032 with a CAGR of 7.8% during review period.

In 2025, global Automotive Grade Chip NTC Thermistor production reached approximately 5343 M Units, with an average global market price of around 18 USD per K Units.

Automotive Grade Chip NTC Thermistor refers to a chip-type negative temperature coefficient thermistor designed for automotive electronic applications. Its resistance decreases as temperature rises, enabling temperature sensing, temperature compensation, and over-temperature protection in automotive systems. These components are typically surface-mounted on PCBs, supplied in compact chip packages.

Automotive Grade Chip NTC Thermistors, with their unique characteristics of miniaturization, wide temperature range stability, high sensitivity and fast response, and automotive-grade high reliability, perfectly adapt to the harsh operating conditions and high-density PCB mounting requirements of automotive applications. They precisely solve the industry pain points of traditional through-hole components, such as large size, shock and temperature difference resistance, slow response, insufficient consistency, and difficulty in adapting to automated mass production. At the same time, they meet the core requirements of high precision, high stability, and high safety of temperature sensing in the three-electric systems of new energy vehicles. At the industry driving level, the continuous increase in the penetration rate of electric vehicles,

the increasing complexity of automotive electronic architecture, and the upgrading of battery thermal management safety requirements are jointly creating strong growth momentum. In the future, with the deep integration of automotive intelligence and electrification, the application scenarios of products will continue to expand, the market penetration space is vast, and the growth potential is huge, making it a highly valuable core track in the field of automotive electronic temperature control.

The upstream raw materials for Automotive Grade Chip NTC Thermistors mainly include Mn_2O_3 , MnO , NiO , Co_2O_3 , CuO , Fe_2O_3 , etc. Typical suppliers include Umicore, Sumitomo Metal Mining, Eramet, Jinchuan Group, Huayou Cobalt, GEM, Xiangtan Electrochemical, American Elements, Kojundo Chemical Laboratory, etc. The downstream applications are mainly in automotive battery management systems, power electronics, automotive lighting, and other fields.

The single-line production capacity of Automotive Grade Chip NTC Thermistors varies greatly depending on the product model, technical solution, degree of automation, and yield. The overall gross profit margin of the industry is in the range of 30%-40%.

This report is a detailed and comprehensive analysis for global Automotive Grade Chip NTC Thermistors 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 Automotive Grade Chip NTC Thermistors market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Grade Chip NTC Thermistors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Grade Chip NTC Thermistors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Grade Chip NTC Thermistors market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

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 Automotive Grade Chip NTC 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 Automotive Grade Chip NTC 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 TDK, Murata, Vishay, Panasonic, KYOCERA AVX, Mitsubishi Materials, Stackpole Electronics, SEMITEC Corporation, Thermometrics (Amphenol), KOA Corporation, etc.

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

Market Segmentation

Automotive Grade Chip NTC Thermistors 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

0201

0402

0603

1206

Others

Market segment by Resistance

10k? Below

10-50k?

50k? Above

Market segment by Max Temperature

125?C

150?C

175?C

Others

Market segment by Application

Passenger Vehicles

Commercial Vehicles

Major players covered

TDK

Murata

Vishay

Panasonic

KYOCERA AVX

Mitsubishi Materials

Stackpole Electronics

SEMITEC Corporation

Thermometrics (Amphenol)

KOA Corporation

THINKING ELECTRONIC INDUSTRIAL

JOYIN CO., LTD.

Viking Tech

Nanjing Shiheng Electronics Co., Ltd.

Guangdong Fenghua Advanced Technology Holding Co., Ltd.

Guangdong EXSENSE Electronics Technology Co., Ltd.

Quest For Advanced Materials Electronics Co., Ltd.

Shenzhen Sunlord Electronics

XIAOGAN HUAGONG GAOLI ELECTRON CO.,LTD.

Shenzhen Ampron Technology Co., Ltd.

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

Chapter 2, to profile the top manufacturers of Automotive Grade Chip NTC Thermistors, with price, sales quantity, revenue, and global market share of Automotive Grade Chip NTC Thermistors from 2021 to 2026.

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

Chapter 4, the Automotive Grade Chip NTC Thermistors 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 Automotive Grade Chip NTC Thermistors 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 Automotive Grade Chip NTC Thermistors.

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

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