

Global Thin Film Resistors 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 Thin Film Resistors market size was valued at USD 520.3 million in 2023 and is forecast to a readjusted size of USD 712.6 million by 2030 with a CAGR of 4.6% during review period.

The resistive layer is sputtered (vacuum deposition) onto a ceramic base. This creates a uniform metallic film of around 0.1 micrometer thick. Often an alloy of Nickel and Chromium is used (Nichrome). They are produced with different layer thicknesses to accommodate a range of resistance Revenues. The layer is dense and uniform, which makes is suitable to trim the resistance Revenue by a subtractive process. With photo etching or by laser trimming patterns are created to increase the resistive path and to calibrate the resistance Revenue. The base is often alumina ceramic, silicon or glass. Usually thin film is produced as a chip or SMD resistor, but the film can also be applied onto a cylindrical base with axial leads. In this case, more often the term metal film resistor is used. Thin film is usually used for precision applications. They feature relatively high tolerances, low temperature coefficients and low noise. Also for high frequency applications thin film performs better than thick film. Inductance and capacitance are generally lower. The parasitic inductance of thin film can be higher if it is executed as a cylindrical helix (metal film resistor). This higher performance comes with a cost, which can be factors higher than the price of thick film resistors. Typical examples where thin film is used are medical equipment, audio installations, precision controls and measurement devices. The major applications are High precision: Measuring or monitoring equipment, medical or audio applications, precision controls.

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applications thin film performs better than thick film. Inductance and capacitance are generally lower. The parasitic inductance of thin film can be higher if it is executed as a cylindrical helix (metal film resistor). This higher performance comes with a cost, which can be factors higher than the price of thick film resistors. Typical examples where thin film is used are medical equipment, audio installations, precision controls and measurement devices. The major applications are High precision: Measuring or monitoring equipment, medical or audio applications, precision controls.

Global thin film resistors key players include Vishay, KOA, Susumu, Viking Tech, etc. Global top 5 manufacturers hold a share over 68%.

North America is the largest market, with a share about 30%, followed by Europe and China with the share about 27% and 16%.

The Global Info Research report includes an overview of the development of the Thin Film Resistors industry chain, the market status of Industrial and Measurement Equipment (Ultra Precision 0.05% Tolerance, 0.1% Tolerance), Medical Equipment (Ultra Precision 0.05% Tolerance, 0.1% Tolerance), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Thin Film Resistors.

Regionally, the report analyzes the Thin Film Resistors 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 Thin Film Resistors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Thin Film Resistors 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 Thin Film Resistors 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 Units), revenue generated, and market share of different by Tolerance (e.g., Ultra Precision 0.05% Tolerance, 0.1% Tolerance).

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 Thin Film Resistors market.

Regional Analysis: The report involves examining the Thin Film Resistors 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 Thin Film Resistors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Thin Film Resistors:

Company Analysis: Report covers individual Thin Film Resistors 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 Thin Film Resistors This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial and Measurement Equipment, Medical Equipment).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Thin Film Resistors 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

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

Market segment by Tolerance

Ultra Precision 0.05% Tolerance

0.1% Tolerance

1% Tolerance

Others

Market segment by Application

Industrial and Measurement Equipment

Medical Equipment

Automotive Electronics

Communication Device

Others

Major players covered

Vishay

KOA

Susumu

Viking Tech

Panasonic

Yageo

Walsin Technology

Bourns

TE Connectivity

Samsung Electro-Mechanics

Ta-I Technology

Uniohm

Ralec Electronics

Ever Ohms

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 Thin Film Resistors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Thin Film Resistors 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 Tolerance and application, with sales market share and growth rate by tolerance, 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 Thin Film Resistors market forecast, by regions, tolerance 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 Thin Film Resistors.

Chapter 14 and 15, to describe Thin Film Resistors sales channel, distributors, customers, research findings and conclusion.

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