

Global Through Hole Thin Film Resistors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Through Hole Thin Film Resistors market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %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.

Thin Film Resistors report published by QYResearch reveals that COVID-19 and Russia-Ukraine War impacted the market dually in 2022. Global Thin Film Resistors market is

projected to reach US\$ 704.9 million in 2029, increasing from US\$ 505.7 million in 2022, with the CAGR of 4.8% during the period of 2023 to 2029. Demand from Industrial and Measurement Equipment and Medical Equipment are the major drivers for the industry.

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

This report is a detailed and comprehensive analysis for global Through Hole Thin Film Resistors 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 Through Hole Thin Film Resistors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Through Hole Thin Film Resistors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Through Hole Thin Film Resistors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Through Hole Thin Film Resistors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Through Hole Thin Film Resistors
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Through Hole Thin Film Resistors 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 Advantech, Vishay, TE Connectivity, Texas Instruments, etc.

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

Market Segmentation

Through Hole Thin Film Resistors market is split by Type and by Application. For the period 2020-2031, 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

Below 1%

From 1% to 5%

Others

Market segment by Application

Consumer Electronics

Telecommunications

Automotive and Energy

Industrial and Medical

Others

Major players covered

Advantech

Vishay

TE Connectivity

Texas Instruments

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

Chapter 2, to profile the top manufacturers of Through Hole Thin Film Resistors, with price, sales quantity, revenue, and global market share of Through Hole Thin Film Resistors from 2020 to 2025.

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

Chapter 4, the Through Hole Thin Film Resistors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Through Hole Thin Film Resistors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Through Hole Thin Film Resistors.

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

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