

# Global Thick Film Precision Grade Chip Resistor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Thick Film Precision Grade Chip Resistor market size was valued at US\$ 445 million in 2025 and is forecast to a readjusted size of US\$ 752 million by 2032 with a CAGR of 7.9% during review period.

A Thick Film Precision Grade Chip Resistor is a type of electronic component used in electronic circuits to limit or control the flow of electric current. 'Thick film' refers to the manufacturing process, where a thick layer of resistive material is deposited onto a ceramic substrate.

The term 'precision grade' indicates that these resistors are manufactured with high precision and accuracy in terms of their resistance value. Precision resistors are designed to have low tolerance and low temperature coefficient, meaning that their resistance value remains stable over a wide range of temperatures.

'Chip resistor' refers to the compact, surface-mount package of the component. These resistors are commonly used in various electronic devices and circuits where accuracy and stability of resistance are critical, such as in precision measuring instruments, medical equipment, and communication devices.

Market Drivers: Increasing Demand for Precision Electronics: Industries such as medical devices, aerospace, and telecommunications require high-precision electronic components. The demand for precise resistance values in these applications drives the market for precision grade chip resistors.

Rise in Automation and IoT: The growth of automation, the Internet of Things (IoT), and other technologies requiring high-precision sensors and control systems contribute to the demand for precision resistors.

Market Restrictions: Cost Considerations: Precision grade chip resistors often involve higher manufacturing costs compared to general-purpose resistors. Cost considerations may limit their adoption in applications where tight precision is not a critical requirement.

Competition from Alternative Technologies: Thin film resistors and other high-precision resistor technologies may compete with thick film precision resistors. The choice between different technologies depends on specific application requirements.

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

Global Thick Film Precision Grade Chip Resistor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thick Film Precision Grade Chip Resistor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thick Film Precision Grade Chip Resistor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

*Global Thick Film Precision Grade Chip Resistor Market 2026 by Manufacturers, Regions, Type and Application, F...*

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Thick Film Precision Grade Chip Resistor

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 Thick Film Precision Grade Chip Resistor 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 Yageo, KOA, Walsin Technology, Vishay, Fenghua Advanced Technology, Ta-I Technology, Panasonic, Samsung Electro-Mechanics, Rohm, UniOhm, etc.

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

## **Market Segmentation**

Thick Film Precision Grade Chip Resistor 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

0.1% Tolerance

0.5% Tolerance

Others

Market segment by Application

Telecommunications

Automotive

Energy

Industrial

Medical

Others

#### Major players covered

Yageo

KOA

Walsin Technology

Vishay

Fenghua Advanced Technology

Ta-I Technology

Panasonic

Samsung Electro-Mechanics

Rohm

UniOhm

Ralec Electronics

Taiyosha Electric

Tateyama Kagaku Industry

Ever Ohms Technology

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 Thick Film Precision Grade Chip Resistor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thick Film Precision Grade Chip Resistor, with price, sales quantity, revenue, and global market share of Thick Film Precision Grade Chip Resistor from 2021 to 2026.

Chapter 3, the Thick Film Precision Grade Chip Resistor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thick Film Precision Grade Chip Resistor 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 Thick Film Precision Grade Chip Resistor 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 Thick Film Precision Grade Chip Resistor.

Chapter 14 and 15, to describe Thick Film Precision Grade Chip Resistor sales channel, distributors, customers, research findings and conclusion.

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