

# Global Resistors 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 Resistors market size was valued at US\$ 8119 million in 2025 and is forecast to a readjusted size of US\$ 11567 million by 2032 with a CAGR of 5.1% during review period.

Resistors are essential basic passive components in electronic circuits. Their core function is to regulate the voltage and current distribution in the circuit by hindering the flow of current, ensuring the stable operation of electronic equipment. Resistors generate heat when consuming electrical energy, so power tolerance is one of the key design indicators.

Structurally, resistors are usually composed of a resistor body (such as carbon film, metal film, wire-wound alloy), electrode pins (for circuit connection) and a protective shell (epoxy resin or ceramic package). The manufacturing process covers precision coating, laser resistance adjustment, high-temperature sintering and other technologies to meet different precisions (?0.1%~?20%) and power requirements (0.01W~several kilowatts). Modern resistors can be divided into fixed resistors, variable resistors (such as potentiometers, digital potentiometers) and sensitive resistors (such as thermistors, varistors, photoresistors) according to their functions. Among them, SMD resistors are also the mainstream trend in the future because of their small size and suitability for automated production.

Resistors are widely used: in consumer electronics, mobile phones and computers rely on micro-chip resistors to achieve signal processing and power management; new energy vehicles use high-power resistors to achieve battery energy recovery and motor braking; industrial equipment relies on high-precision resistors to complete sensor signal conditioning.

The resistors in this article are mainly divided into several commonly used resistors, such as SMD thin film resistors, SMD thick film resistors, current sensing resistors, thermistors, varistors/variable resistors, etc.

Resistors, capacitors, and inductors are collectively referred to as passive components. Globally, the passive component market size exceeds US\$35 billion, confirming its strategic position as a basic component of the electronics industry. At present, the passive component market structure shows a significant stratification: capacitors dominate, followed by resistors, and finally inductors. Under this framework, the resistor market presents a 'leading and diversified competition' pattern. The global resistor leading companies mainly include Yageo, Vishay, KOA, Panasonic, Samsung Electro-Mechanics, etc., while the mainstream Chinese local manufacturers are mainly Guangdong Fenghua Advanced Technology, Shenzhen Sunlord Electronics, uneway Electronics, China Zhenhua (Group) Science and Technology, etc.

#### Downstream Markets:

1. The electrification of automobiles and upgrades to power systems continue to increase the value of resistors per vehicle: BMS, OBC, inverters, EPS, thermal management, and vehicle domain control are driving increased demand for current sensing, power, and protection resistors. Furthermore, automotive-grade certification ensures stable long-term orders. Automotive electronics is one of the most certain and continuously growing sectors from 2020 to 2031.
2. AI servers/data centers and industrial power supplies are driving upgrades towards 'low resistance, high power, and high precision': Resistor manufacturers' annual reports (such as Ever Ohms Technology and Viking in Taiwan) disclose R&D directions covering servers, automotive, and high-power applications, emphasizing investment in low-resistance/high-current sensing, automotive-grade standards, and reliability systems.
3. New energy infrastructure is bringing structural growth: Photovoltaics, wind power, energy storage, and charging piles are placing higher demands on the reliability and heat dissipation of power links, driving the expansion of categories such as surge-resistant resistors and shunt/alloy resistors.

This report is a detailed and comprehensive analysis for global 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 Resistors market size and forecasts, in consumption value (\$ Million), sales quantity (M Pcs), and average selling prices (USD/K Pcs), 2021-2032

Global Resistors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Pcs), and average selling prices (USD/K Pcs), 2021-2032

Global Resistors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Pcs), and average selling prices (USD/K Pcs), 2021-2032

Global Resistors market shares of main players, shipments in revenue (\$ Million), sales quantity (M Pcs), and ASP (USD/K Pcs), 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 Resistors

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 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 YAGEO, Vishay, KOA, Panasonic, Samsung Electro-Mechanics, UNI-ROYAL, TA-I Technology, GuangDong FengHua Advanced Technology, Cyntec, EVER OHMS, etc.

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

## **Market Segmentation**

Resistors 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

SMD Thin Film Resistors

SMD Thick Film Resistors

Metal Current Sensing Resistors (Alloy Resistors)

Thermistors (PTC/NTC)

Variable Resistors

Other Resistors

### Market segment by Packaging

SMD/Chip Resistors

THT Resistors

### Market segment by Application

Automotive Electronics

Mobile Phones & Tablets

Computers & Servers

Home Appliances

Medical Equipment

Communication Equipment

Industrial Control

Photovoltaic and Wind Power

Rail Transit

Others

#### Major players covered

YAGEO

Vishay

KOA

Panasonic

Samsung Electro-Mechanics

UNI-ROYAL

TA-I Technology

GuangDong FengHua Advanced Technology

Cyntec

EVER OHMS

Susumu

LIZ Electronics

Rohm

Isabellenh?tte

Walsin Technologies Corporation

Firstohm

Juneway Electronics

Viking

TT Electronics

Cyntec

Nanjing SART

Walsin Technology

Taiyosha Electric

Tateyama Kagaku Industry

Anhui Vico Technologies

Bourns

MEGATRON Elektronik GmbH & Co. KG

Stackpole Electronics

Jining Tiangeng Electric

TDK

KYOCERA AVX

Littelfuse

MARUWA

Lattron

Shenzhen Sunlord

JOYIN CO., LTD

Nanjing Sinochip Electronics

Polytronics

Fuzetec

Eaton

Amphenol Advanced Sensors

Shenzhen Jinke Special Materials Co., Ltd

MURATA

Thinking Electronic

Shibaura

Semitec Corporation

Mitsubishi

Nanjing Shiheng Electronic Technology

eWay Technologies

Ametherm

EXSENSE Electronic

TAYAO Technology

Tewa Temperature Sensors

China Zhenhua (Group) Science and Technology Co., Ltd

Chaozhou Three-Circle Group Co., Ltd

Prosperity Dielectrics Co., Ltd

Holy Stone Enterprise Co., Ltd

Taiwan Alpha Electronic Co., Ltd

Nippon Chemi-Con Corporation

HOKURIKU ELECTRIC

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

Chapter 2, to profile the top manufacturers of Resistors, with price, sales quantity, revenue, and global market share of Resistors from 2021 to 2026.

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

Chapter 4, the Resistors 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 Resistors 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 Resistors.

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

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