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Global Voltage Dependent Resistors (VDR) 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 Voltage Dependent Resistors (VDR) market size was valued at US$ 1174 million in 2025 and is forecast to a readjusted size of US$ 1684 million by 2032 with a CAGR of 4.9% during review period.

In 2025, global varistor production reached approximately 25787 million units, with an average global market price of around US$ 44.26 per K units. A varistor (a.k.a. voltage-dependent resistor (VDR)) is a surge protecting electronic component with an electrical resistance that varies with the applied voltage. It has a nonlinear, non-ohmic current–voltage characteristic that is similar to that of a diode. Unlike a diode however, it has the same characteristic for both directions of traversing current. Traditionally, varistors were constructed by connecting two rectifiers, such as the copper-oxide or germanium-oxide rectifier in antiparallel configuration. At low voltage the varistor has a high electrical resistance which decreases as the voltage is raised. Modern varistors are primarily based on sintered ceramic metal-oxide materials which exhibit directional behavior only on a microscopic scale. This type is commonly known as the metal-oxide varistor (MOV).

Main Application Areas

Widely used in new energy vehicles, photovoltaic energy storage, industrial control, communication equipment, and consumer electronics, with automotive electronics and energy storage devices emerging as new growth drivers.

Technological Development Trends

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The industry is evolving toward miniaturized packaging, high-voltage and high-energy capabilities, and intelligent integration. The development of new varistor materials is driving improvements in product performance.

Competitive Landscape

Major global players include international companies such as TDK, Panasonic, KOA Corporation, Littelfuse, THINKING, and Vishay. Domestic enterprises like Fenghua High-Tech and Shiheng Electronics have made technological and product breakthroughs. However, domestic manufacturers still need to further enhance their high-end automotive-grade certifications and brand credibility.

Industry Characteristics

Varistors are nonlinear resistive components primarily used for surge protection, lightning strike prevention, electrostatic discharge suppression, and electromagnetic interference suppression. They are often used in combination with TVS diodes or gas discharge tubes to form a multi-stage protection system.

Challenges Faced

The industry faces challenges including rapid technological iteration, intensified market competition, fluctuating raw material prices, and pressure to control costs.

Report Scope

This report is a detailed and comprehensive analysis for global Voltage Dependent Resistors (VDR) 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 Voltage Dependent Resistors (VDR) market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit),

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2021-2032

Global Voltage Dependent Resistors (VDR) 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 Voltage Dependent Resistors (VDR) 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 Voltage Dependent Resistors (VDR) 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 Voltage Dependent Resistors (VDR)

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 Voltage Dependent Resistors (VDR) 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, Panasonic, KOA Corporation, Littelfuse, THINKING, Fenghua, Semitec Corporation, Elpro International, Bourns, Songtian Electronics (STE), etc.

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

Market Segmentation

Voltage Dependent Resistors (VDR) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate

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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 Type

Leaded Type

Market segment by Raw Material

MOV

SiC Varistor

Market segment by Structure

MLV

High Pressure Varistor

TVS Varistor

Market segment by Application

Consumer Electronics

Telecommunication

Home Appliance

Automotive

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Industrial Equipment

Others

Major players covered

TDK

Panasonic

KOA Corporation

Littelfuse

THINKING

Fenghua

Semitec Corporation

Elpro International

Bourns

Songtian Electronics (STE)

Nippon Chemi-Con

Lattron

Xiamen SET Electronics

Shiheng

Huagu Electronics

JOYIN

Xiamen Wanming Electronics

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Kestar Electronic

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)

Chapter Outline

Chapter 1, to describe Voltage Dependent Resistors (VDR) product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Voltage Dependent Resistors (VDR) 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.

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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 Voltage Dependent Resistors (VDR) 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 Voltage Dependent Resistors (VDR).

Chapter 14 and 15, to describe Voltage Dependent Resistors (VDR) sales channel, distributors, customers, research findings and conclusion.

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