

Global High Voltage SMD Resistors Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G3791D3B69F6EN.html>

Date: June 2026

Pages: 111

Price: US\$ 4,480.00 (Single User License)

ID: G3791D3B69F6EN

Abstracts

The global High Voltage SMD Resistors market size is expected to reach \$ 733 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

High-voltage surface mount resistors are surface-mount resistive elements manufactured using thick-film or thin-film processes. They can operate stably at relatively high operating voltages and are characterized by small size, high voltage withstand capability, high reliability, and suitability for high-resistance voltage division, current limiting, and protection circuits.

Upstream suppliers mainly include alumina ceramic substrate suppliers, metal paste/resistive paste suppliers, terminal electrode materials suppliers, packaging material suppliers, and equipment suppliers for laser trimming and screen printing. Downstream suppliers primarily serve power supply, meter, photovoltaic inverter, energy storage system, new energy vehicle BMS/OBC, and medical high-voltage equipment manufacturers.

The global high-voltage surface mount resistor market has a unit price of \$5.7 per piece and annual sales of approximately 83.3 million pieces.

The global high-voltage surface mount resistor market will continue to develop towards higher voltage withstand capability, miniaturization, higher reliability, and automotive electronic grade. With the rapid upgrading of high-voltage platforms for new energy vehicles, energy storage systems, photovoltaic inverters, industrial power supplies, and medical high-voltage equipment, the market demands for high resistance, high precision, pulse resistance, damp heat resistance, and long-term stability are constantly

increasing. This is driving the evolution of products from traditional thick-film solutions to higher-performance thin-film, automotive-grade, and specialized solutions. Meanwhile, to reduce component count, save PCB space, and improve system safety, designers are increasingly favoring single-chip high-voltage resistors over multi-series solutions, further increasing demand for high-value-added products.

This report studies the global High Voltage SMD Resistors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Voltage SMD Resistors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Voltage SMD Resistors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Voltage SMD Resistors total production and demand, 2021-2032, (K Pcs)

Global High Voltage SMD Resistors total production value, 2021-2032, (USD Million)

Global High Voltage SMD Resistors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global High Voltage SMD Resistors consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: High Voltage SMD Resistors domestic production, consumption, key domestic manufacturers and share

Global High Voltage SMD Resistors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global High Voltage SMD Resistors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global High Voltage SMD Resistors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global High Voltage SMD Resistors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include VISHAY, Viking Tech, KOA, YAGEO Group, Bourns, Kamaya, Ohmite, TT Electronics, Stackpole Electronics, Panasonic, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Voltage SMD Resistors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High Voltage SMD Resistors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Voltage SMD Resistors Market, Segmentation by Type:

Thick Film

Thin Film

Global High Voltage SMD Resistors Market, Segmentation by Package Size:

0402

0603

0805

1206

2010

2512

Global High Voltage SMD Resistors Market, Segmentation by Temperature Coefficient (TCR):

Standard TCR Type ± 100 ppm/K

Low TCR Type ± 50 ppm/K

Ultra-low TCR Type ± 25 ppm/K

Global High Voltage SMD Resistors Market, Segmentation by Application:

High Voltage Power Supply

Power System

Medical Equipment

Laser Equipment

Others

Companies Profiled:

VISHAY

Viking Tech

KOA

YAGEO Group

Bourns

Kamaya

Ohmite

TT Electronics

Stackpole Electronics

Panasonic

Key Questions Answered:

1. How big is the global High Voltage SMD Resistors market?
2. What is the demand of the global High Voltage SMD Resistors market?
3. What is the year over year growth of the global High Voltage SMD Resistors market?
4. What is the production and production value of the global High Voltage SMD Resistors market?
5. Who are the key producers in the global High Voltage SMD Resistors market?
6. What are the growth factors driving the market demand?

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