

# Global Semiconductor Resistance Strain Gage Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Semiconductor Resistance Strain Gage market size is expected to reach \$ 60.22 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, the global production of semiconductor resistance strain gages reached 14.9 million units, with an average selling price of 2.5 USD per unit. The global annual production capacity for semiconductor resistance strain gages is approximately 25 million units, with a gross margin of about 30.1%. A semiconductor resistance strain gage is a sensing device that utilizes the piezoresistive effect of semiconductor materials to convert mechanical strain into a change in electrical resistance. When a semiconductor material (primarily single-crystal silicon or germanium) undergoes mechanical deformation due to an external force, its crystal lattice structure changes, leading to variations in carrier mobility and concentration. This, in turn, causes a significant change in resistivity ? a physical phenomenon known as the piezoresistive effect. Compared to metal strain gages, semiconductor resistance strain gages have a strain factor (gauge factor) of 50?200, which is dozens of times higher than that of metal strain gages, enabling them to detect extremely small strain signals. However, they have poor temperature stability and exhibit significant output nonlinearity, so in practical applications they typically require temperature compensation and linearization circuits. The upstream supply chain for semiconductor resistance strain gages includes silicon, germanium, and materials for thin-film deposition and micromachining. The midstream segment consists of semiconductor resistance strain gage manufacturers, while the downstream industries primarily include aerospace, construction, and automotive.

Currently, the market for semiconductor resistance strain gages is in a phase of steady development and technological deepening. As a core sensing element that leverages

the piezoresistive effect of semiconductor materials to achieve high-sensitivity strain measurement, semiconductor resistance strain gages possess a gauge factor far superior to that of traditional metal strain gages, giving them an irreplaceable position in high-end industrial and research applications that require precise detection of minute deformation. Although their inherent temperature sensitivity and nonlinear response remain major technical challenges that typically necessitate external compensation circuits, the reliability and stability of overall solutions are continuously improving due to ongoing advancements in materials processing and microfabrication technologies. With the growing demand for miniaturization, intelligence, and high precision in downstream sensor applications, the fundamental research and manufacturing processes for semiconductor resistance strain gages are being steadily optimized to better meet the stringent requirements of fields such as aerospace, precision manufacturing, and automotive electronics.

This report studies the global Semiconductor Resistance Strain Gage production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Resistance Strain Gage 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 Semiconductor Resistance Strain Gage that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Resistance Strain Gage total production and demand, 2021-2032, (K Pcs)

Global Semiconductor Resistance Strain Gage total production value, 2021-2032, (USD Million)

Global Semiconductor Resistance Strain Gage production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Semiconductor Resistance Strain Gage consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Semiconductor Resistance Strain Gage domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Resistance Strain Gage production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Semiconductor Resistance Strain Gage production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Semiconductor Resistance Strain Gage production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Semiconductor Resistance Strain Gage 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 KYOWA, Omega, BCM, Piezo-Metrics, Kulite Semiconductor Products, TOP SENSOR TECH, HT Sensor, NMB, AVIC Zhonghang Electronic Measuring Instruments, Anhui Tianguang Sensor, 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 Semiconductor Resistance Strain Gage 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 Semiconductor Resistance Strain Gage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Resistance Strain Gage Market, Segmentation by Type:

Silicon-based

Germanium-based

Others

Global Semiconductor Resistance Strain Gage Market, Segmentation by Structural Forms:

Thin Film Type

Bulk Silicon Type

Three-Dimensional Structure

Global Semiconductor Resistance Strain Gage Market, Segmentation by Sensitivity Coefficient:

80-150

40-80

≤40

Global Semiconductor Resistance Strain Gage Market, Segmentation by Application:

Aerospace

Automotive

Construction

Medical

Scientific Research and Education

Others

#### Companies Profiled:

KYOWA

Omega

BCM

Piezo-Metrics

Kulite Semiconductor Products

TOP SENSOR TECH

HT Sensor

NMB

AVIC Zhonghang Electronic Measuring Instruments

Anhui Tianguang Sensor

Haptica Sensing

HBM

GuangDong Micro Strain Sensing Technology

#### Key Questions Answered:

1. How big is the global Semiconductor Resistance Strain Gage market?
2. What is the demand of the global Semiconductor Resistance Strain Gage market?
3. What is the year over year growth of the global Semiconductor Resistance Strain Gage market?
4. What is the production and production value of the global Semiconductor Resistance Strain Gage market?
5. Who are the key producers in the global Semiconductor Resistance Strain Gage market?
6. What are the growth factors driving the market demand?

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