

# Global Metal Thin Film Chip Resistors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Metal Thin Film Chip Resistors market size is expected to reach \$ 480 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

In 2025, global metal thin-film chip resistor production reached approximately 1954 m units, the average price is 180 usd/k unit. Metal thin-film chip resistors are surface mount resistors manufactured using thin-film processes such as vacuum evaporation or sputtering. These processes involve uniformly depositing thin-film materials such as nickel-chromium or tantalum nitride onto a high-purity ceramic substrate like alumina. The sheet resistance of the thin film is then precisely adjusted using photolithography or laser trimming technology to achieve the target resistance value. Afterward, a glass glaze protective layer is coated, electrode paste is printed, and the resistors undergo sintering, dicing, end electrode electroplating, and testing and sorting. They are characterized by high resistance accuracy, low temperature coefficient, low noise, good high-frequency characteristics, a wide resistance range, and strong stability. Their compact size makes them suitable for high-density mounting.

### Market Concentration and Major Players:

Internationally, the market for metal thin-film chip resistors is highly concentrated, primarily in developed countries in Europe and America. Large manufacturers include Vishay and Susumu. Domestically, the metal thin-film chip resistor market still has significant room for growth.

### Manufacturing Process and Market Trends:

Metal thin-film chip resistors are manufactured using high-purity alumina ceramic substrates. After precision grinding and ultrasonic cleaning, the substrates are placed in a vacuum chamber. Nanoscale metal films such as nickel-chromium and tantalum nitride are deposited using magnetron sputtering or evaporation processes. A preliminary resistor pattern is then formed using photolithography and wet etching. Next, a high-energy laser beam is used to refine the film to achieve the target resistance accuracy. Subsequently, a glass enamel protective layer and silver paste electrodes are printed and sintered at high temperature. Finally, a nickel-tin layer is electroplated, the chips are diced, electrical performance is tested, and the resistors are packaged.

At the market level, driven by 5G communication, new energy vehicle electronics and industrial automation, products continue to upgrade towards ultra-high precision, extremely low temperature coefficient, high power density and high reliability against sulfurization. Package sizes are constantly shrinking to 0201 or even 01005 to adapt to high-density mounting. At the same time, anti-pulse capability and high-frequency characteristics optimization have become key points. In addition, the process of domestic substitution is accelerating, and domestic manufacturers are gradually breaking through the technical barriers of high-end products to meet the supply chain self-sufficiency needs of precision instruments and automotive electronics.

This report studies the global Metal Thin Film Chip Resistors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metal Thin Film Chip 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 Metal Thin Film Chip Resistors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Metal Thin Film Chip Resistors total production and demand, 2021-2032, (Million Units)

Global Metal Thin Film Chip Resistors total production value, 2021-2032, (USD Million)

Global Metal Thin Film Chip Resistors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Metal Thin Film Chip Resistors consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Metal Thin Film Chip Resistors domestic production, consumption, key domestic manufacturers and share

Global Metal Thin Film Chip Resistors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Metal Thin Film Chip Resistors production by Precision, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Metal Thin Film Chip Resistors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Metal Thin Film Chip 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 (USA), KOA (Japan), Susumu (Japan), Viking Tech (Taiwan), Panasonic (Japan), Yageo (Taiwan), Walsin Technology (Taiwan), Bourns (USA), TE Connectivity (Switzerland), Samsung Electro-Mechanics (South Korea), 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 Metal Thin Film Chip Resistors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (USD/K Units) by manufacturer, by Precision, 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 Metal Thin Film Chip Resistors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Metal Thin Film Chip Resistors Market, Segmentation by Precision:

Ultra Precision 0.05% Tolerance

0.1% Tolerance

1% Tolerance

Others

#### Global Metal Thin Film Chip Resistors Market, Segmentation by Materials:

$\pm 50$  ppm/ $^{\circ}$ C

$\pm 15$  ppm/ $^{\circ}$ C

$\pm 5$  ppm/ $^{\circ}$ C

Others

#### Global Metal Thin Film Chip Resistors Market, Segmentation by Temperature:

NiCr Thin Film Resistor

TaN Thin Film Resistor

Others

## Global Metal Thin Film Chip Resistors Market, Segmentation by Application:

Industrial and Measurement Equipment

Medical Equipment

Automotive Electronics

Communication Device

Others

## Companies Profiled:

Vishay (USA)

KOA (Japan)

Susumu (Japan)

Viking Tech (Taiwan)

Panasonic (Japan)

Yageo (Taiwan)

Walsin Technology (Taiwan)

Bourns (USA)

TE Connectivity (Switzerland)

Samsung Electro-Mechanics (South Korea)

Ta-I Technology (Taiwan)

Uniohm (Taiwan)

Ralec Electronics (Taiwan)

Ever Ohms (Taiwan)

TT Electronics (UK)

Stackpole Electronics (USA)

Flat Electronics (Japan)

#### Key Questions Answered:

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

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