

Global Metal Thin Film Chip Resistors Market Growth 2026-2032

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Abstracts

The global Metal Thin Film Chip Resistors market size is predicted to grow from US\$ 344 million in 2025 to US\$ 463 million in 2032; it is expected to grow at a CAGR of 4.4% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Metal Thin Film Chip Resistors Industry Forecast" looks at past sales and reviews total world Metal Thin Film Chip Resistors sales in 2025, providing a comprehensive analysis by region and market sector of projected Metal Thin Film Chip Resistors sales for 2026 through 2032. With Metal Thin Film Chip Resistors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Metal Thin Film Chip Resistors industry.

This Insight Report provides a comprehensive analysis of the global Metal Thin Film Chip Resistors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Metal Thin Film Chip Resistors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Metal Thin Film Chip Resistors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Metal Thin Film Chip Resistors and breaks down the forecast by Precision, by Application, geography, and market size to highlight emerging

pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Metal Thin Film Chip Resistors.

This report presents a comprehensive overview, market shares, and growth opportunities of Metal Thin Film Chip Resistors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Precision:

Ultra Precision 0.05% Tolerance

0.1% Tolerance

1% Tolerance

Others

Segmentation by Materials:

±50 ppm/°C

±15 ppm/°C

±5 ppm/°C

Others

Segmentation by Temperature:

NiCr Thin Film Resistor

TaN Thin Film Resistor

Others

Segmentation by Application:

Industrial and Measurement Equipment

Medical Equipment

Automotive Electronics

Communication Device

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Metal Thin Film Chip Resistors market?

What factors are driving Metal Thin Film Chip Resistors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Metal Thin Film Chip Resistors market opportunities vary by end market size?

How does Metal Thin Film Chip Resistors break out by Precision, by Application?

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