

Global Thick Film Precision Grade Chip Resistor Market Growth 2026-2032

<https://marketpublishers.com/r/G3FAB561662AEN.html>

Date: August 2026

Pages: 109

Price: US\$ 3,660.00 (Single User License)

ID: G3FAB561662AEN

Abstracts

The global Thick Film Precision Grade Chip Resistor market size is predicted to grow from US\$ 423 million in 2025 to US\$ 734 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 2032.

A Thick Film Precision Grade Chip Resistor is a type of electronic component used in electronic circuits to limit or control the flow of electric current. ?Thick film? refers to the manufacturing process, where a thick layer of resistive material is deposited onto a ceramic substrate.

The term ?precision grade? indicates that these resistors are manufactured with high precision and accuracy in terms of their resistance value. Precision resistors are designed to have low tolerance and low temperature coefficient, meaning that their resistance value remains stable over a wide range of temperatures.

?Chip resistor? refers to the compact, surface-mount package of the component. These resistors are commonly used in various electronic devices and circuits where accuracy and stability of resistance are critical, such as in precision measuring instruments, medical equipment, and communication devices.

Market Drivers: Increasing Demand for Precision Electronics: Industries such as medical devices, aerospace, and telecommunications require high-precision electronic components. The demand for precise resistance values in these applications drives the market for precision grade chip resistors.

Rise in Automation and IoT: The growth of automation, the Internet of Things (IoT), and other technologies requiring high-precision sensors and control systems contribute to

the demand for precision resistors.

Market Restrictions: Cost Considerations: Precision grade chip resistors often involve higher manufacturing costs compared to general-purpose resistors. Cost considerations may limit their adoption in applications where tight precision is not a critical requirement.

Competition from Alternative Technologies: Thin film resistors and other high-precision resistor technologies may compete with thick film precision resistors. The choice between different technologies depends on specific application requirements.

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

This Insight Report provides a comprehensive analysis of the global Thick Film Precision Grade Chip Resistor 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 Thick Film Precision Grade Chip Resistor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thick Film Precision Grade Chip Resistor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thick Film Precision Grade Chip Resistor and breaks down the forecast by Type, 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 Thick Film Precision Grade Chip Resistor.

This report presents a comprehensive overview, market shares, and growth opportunities of Thick Film Precision Grade Chip Resistor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

0.1% Tolerance

0.5% Tolerance

Others

Segmentation by Application:

Telecommunications

Automotive

Energy

Industrial

Medical

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.

Yageo

KOA

Walsin Technology

Vishay

Fenghua Advanced Technology

Ta-I Technology

Panasonic

Samsung Electro-Mechanics

Rohm

UniOhm

Ralec Electronics

Taiyosha Electric

Tateyama Kagaku Industry

Ever Ohms Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thick Film Precision Grade Chip Resistor market?

What factors are driving Thick Film Precision Grade Chip Resistor market growth, globally and by region?

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

How do Thick Film Precision Grade Chip Resistor market opportunities vary by end market size?

How does Thick Film Precision Grade Chip Resistor break out by Type, by Application?

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