

# Global Anti Surge Thick Film Chip Resistor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Anti Surge Thick Film Chip Resistor market size is expected to reach \$ 1736 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Surge-resistant thick-film resistors are passive electronic components manufactured by printing a thick-film resistive paste onto a ceramic substrate, followed by high-temperature sintering. Compared to standard thick-film resistors, these components utilize upgraded material formulations and manufacturing processes, enabling them to withstand significantly higher voltage spikes and transient surge energies than their standard counterparts. They serve to protect sensitive components within electronic circuits and play a crucial role in surge suppression and current diversion across various applications, including automotive power supplies, industrial power systems, communication base stations, and home appliance control boards. In 2025, the global market volume for surge-resistant thick-film resistors is projected to reach approximately 39.2 billion units, with an average unit price of approximately \$27 per thousand pieces and a capacity utilization rate of around 85%. Upstream enterprises in this sector specialize in the preparation of ceramic substrates and functional pastes, while downstream enterprises consist primarily of manufacturers of complete electronic systems responsible for assembly and integration. The gross profit margin for these components stands at approximately 35%. The product cost structure is primarily composed of ceramic substrate costs (accounting for roughly 30% of total costs), thick-film paste materials (40%), manufacturing and testing processes (20%), and indirect costs—such as R&D and quality assurance—(10%). Demand-side applications span industrial power modules, automotive electronic control units (ECUs), communication base station power systems, and consumer electronics power management systems. Downstream clientele includes power module suppliers for automotive OEMs, industrial

automation equipment manufacturers, telecommunications equipment manufacturers, white goods manufacturers, and power adapter manufacturers. In terms of market opportunities, policy-driven growth stems from the heightened power reliability requirements resulting from global automotive electrification trends and government support policies for the new energy vehicle industry. Technological innovation serves as another key driver, fueled by advancements in the nano-material modification of thick-film pastes and improvements in high-temperature sintering processes, which yield superior surge-withstanding capabilities and facilitate product miniaturization. Furthermore, evolving consumer demands—shifting from a preference for simple, cost-centric components toward a requirement for high reliability and extended product lifespans—are expected to ensure robust growth for surge-resistant thick-film resistors over the coming years. The broader global trend within the electronic components industry—moving toward higher reliability and increasingly complex circuit designs—is driving an increase in the overall value of this specialized component segment; in particular, the ever-growing demand for surge protection in automotive electronics and high-voltage industrial power systems continues to generate a steady stream of orders and opportunities for custom development for manufacturers in this field.

As a specialized segment within thick-film resistor technology, surge-resistant thick-film resistors derive their value from their ability to strike an optimal balance between cost-effectiveness and surge-withstanding capability. Driven by the widespread integration of electronic systems into high-voltage, high-power, and high-reliability environments across the globe, demand for this product continues to rise. This growth is fueled both by large-scale applications—such as new energy vehicles, industrial automation, and communications infrastructure—that are bolstered by supportive government policies, and by technological innovations that have enabled thick-film materials and manufacturing processes to achieve superior surge resistance and more stable performance. Concurrently, rising consumer expectations regarding the reliability and safety of electronic products are creating a growing demand for underlying components that possess enhanced anti-interference and surge-protection capabilities. Consequently, manufacturers who make sustained investments in materials science, micro- and nanostructure design, and automated production lines are able to significantly expand the scope of product applications while simultaneously boosting their gross profit margins. In the coming years, surge-resistant thick-film resistors are expected to remain a standout segment within the specialized electronic components market, playing a pivotal role—particularly within integrated design solutions—for applications such as power management in new energy vehicles, power control in smart manufacturing, and power supply modules for 5G base stations.

This report studies the global Anti Surge Thick Film Chip Resistor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Anti Surge Thick Film Chip Resistor 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 Anti Surge Thick Film Chip Resistor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Anti Surge Thick Film Chip Resistor total production and demand, 2021-2032, (M Units)

Global Anti Surge Thick Film Chip Resistor total production value, 2021-2032, (USD Million)

Global Anti Surge Thick Film Chip Resistor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Units), (based on production site)

Global Anti Surge Thick Film Chip Resistor consumption by region & country, CAGR, 2021-2032 & (M Units)

U.S. VS China: Anti Surge Thick Film Chip Resistor domestic production, consumption, key domestic manufacturers and share

Global Anti Surge Thick Film Chip Resistor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Units)

Global Anti Surge Thick Film Chip Resistor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

Global Anti Surge Thick Film Chip Resistor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

This report profiles key players in the global Anti Surge Thick Film Chip Resistor 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 Panasonic?JP?, TE Connectivity?US/IE?, Yageo?TW?, Rohm?JP?, Ralec Electronics Corp.?TW?, Bourns?US?, Ohmite?US?, Beck Elektronik?DE?, Vishay?US?, NIC Components?US?, 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 Anti Surge Thick Film Chip Resistor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Units) and average price (US\$/K Units) 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 Anti Surge Thick Film Chip Resistor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Anti Surge Thick Film Chip Resistor Market, Segmentation by Type:

1/16W

1/5W

1/4W

1/2W

Other

### Global Anti Surge Thick Film Chip Resistor Market, Segmentation by Tolerance:

1%

2%

5%

Other

### Global Anti Surge Thick Film Chip Resistor Market, Segmentation by Resistance Temperature Coefficient:

±100PPM/C

±200PPM/C

±250PPM/C

±400PPM/C

Other

### Global Anti Surge Thick Film Chip Resistor Market, Segmentation by Application:

Automotive

Consumer Electronic

Medical

Communication

Power

Other

Companies Profiled:

Panasonic?JP?

TE Connectivity?US/IE?

Yageo?TW?

Rohm?JP?

Ralec Electronics Corp.?TW?

Bourns?US?

Ohmite?US?

Beck Elektronik?DE?

Vishay?US?

NIC Components?US?

KOA Speer?JP?

Viking Tech?TW?

Uni Royal?TW?

Fenghua?CN?

Ningbo GiantOhm Micro Electronics Technology?CN?

Key Questions Answered:

1. How big is the global Anti Surge Thick Film Chip Resistor market?

2. What is the demand of the global Anti Surge Thick Film Chip Resistor market?
3. What is the year over year growth of the global Anti Surge Thick Film Chip Resistor market?
4. What is the production and production value of the global Anti Surge Thick Film Chip Resistor market?
5. Who are the key producers in the global Anti Surge Thick Film Chip Resistor market?
6. What are the growth factors driving the market demand?

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