

Global Automotive PTC Resettable Fuse Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive PTC Resettable Fuse market size was valued at US\$ 103 million in 2025 and is forecast to a readjusted size of US\$ 152 million by 2032 with a CAGR of 5.7% during review period.

Automotive PTC (Positive Temperature Coefficient) resettable fuses are self-resetting circuit protection devices for automotive electrical systems. Unlike conventional single-use fuses, PTC resettable fuses automatically increase their own resistance in the event of a fault condition, such as an overcurrent or short circuit, to limit the current and protect the circuit. When the fault condition is eliminated, the PTC fuse will return to its low resistance state through the cooling process, achieving automatic reset without replacement, reducing maintenance costs and improving system reliability. In recent years, with the increasing degree of automotive electronics, the rapid development of new energy vehicles and intelligent networked vehicles, the demand for automotive PTC resettable fuses has grown significantly. The key raw materials for automotive PTC resettable fuses mainly include polymers such as polystyrene (PS), polypropylene (PP) and other thermoplastic polymers, carbon black, silver paste, copper powder and other conductive fillers and ceramic packaging materials. The downstream customers of automotive PTC resettable fuses mainly include OEMs such as Toyota, Volkswagen, and Tesla, as well as suppliers of electronic components and circuit protection solutions provided by OEMs, such as Bosch, Delphi, and Continental. In addition, aftermarket and electric vehicle EV battery management system (BMS) suppliers also need to purchase PTC fuses. In 2025, production was approximately 200 million units and the average price was USD 0.5 per unit. The industry's capacity utilization rate in 2025 was about 70% and the average gross margin was around 30%.

With the rapid development of automotive electrification and intelligence, the number of electronic components and circuits inside vehicles is increasing exponentially, posing higher and more complex requirements for circuit protection. The PTC resettable fuse, with its unique self-recovering property, has become an ideal alternative to traditional one-time fuses. When a circuit overcurrent or overheat occurs, the resistance of the PTC fuse increases rapidly, cutting off the current; once the fault is cleared, it automatically returns to a low-resistance state, eliminating the need for manual replacement. This resettable function greatly simplifies fault handling, reduces maintenance costs, and enhances vehicle reliability.

This report is a detailed and comprehensive analysis for global Automotive PTC Resettable Fuse market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive PTC Resettable Fuse market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive PTC Resettable Fuse market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive PTC Resettable Fuse market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive PTC Resettable Fuse market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive PTC Resettable Fuse

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive PTC Resettable Fuse market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Littelfuse (USA), Bourns (USA), Eaton (Ireland), Bel Fuse (USA), TE Connectivity (Switzerland), SCHURTER (Switzerland), TDK Electronics (Germany), Murata Manufacturing (Japan), Fuzetec Technology (China), Wayon Electronics (China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive PTC Resettable Fuse market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

CPTC Fuse

PPTC Fuse

Market segment by Voltage

Voltage?16V

16V

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