

Global PTC Thermistor 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 PTC Thermistor Resettable Fuse market size was valued at US\$ 494 million in 2025 and is forecast to a readjusted size of US\$ 711 million by 2032 with a CAGR of 5.4% during review period.

PTC Thermistor Resettable Fuse is a resettable overcurrent protection device based on positive temperature coefficient thermistor materials, using the resistance increase caused by abnormal current heating to limit current and automatically recover after the fault is removed. Compared with disposable fuses, its advantages lie in resettable protection, lower maintenance cost, compact structure, fast overcurrent response, better circuit continuity, and stronger suitability for repeated protection in compact electronic systems. In 2025, production was approximately 1,200 million units and the average price was USD 0.4 per unit. The industry's capacity utilization rate in 2025 was about 70% and the average gross margin was around 30%. Upstream, the key materials include polyolefin resin, conductive carbon black, and copper foil, with representative suppliers such as LyondellBasell, Cabot, and Nuode New Materials providing polymer base materials, conductive fillers, and copper foil materials. The midstream segment focuses on polymer formulation, conductive network control, sheet compounding, electrode lamination, chip forming, resistance calibration, thermal response testing, reliability verification, and automated assembly, which together determine trip current accuracy, reset performance, resistance stability, response speed, safety reliability, and cost competitiveness. Downstream, PTC Thermistor Resettable Fuse is mainly used in telecommunications, consumer electronics, and home appliances, with representative customer companies including Huawei, Samsung Electronics, and Midea Group.

PTC thermistor resettable fuses, based on polymeric positive temperature coefficient

materials, are seeing sustained demand across telecommunications, consumer electronics, and home appliances due to their self-resetting capability and cost-saving maintenance; as electronics miniaturization, rising power densities, and stricter safety and efficiency regulations drive broader adoption, suppliers have clear opportunities to capture growth in high-demand segments such as data centers, electric vehicles, and 5G infrastructure by focusing on miniaturization, reduced resistance, and integration with smart monitoring features.

This report is a detailed and comprehensive analysis for global PTC Thermistor 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 PTC Thermistor Resettable Fuse market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PTC Thermistor 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 PTC Thermistor 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 PTC Thermistor 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 PTC Thermistor 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 PTC Thermistor 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

PTC Thermistor 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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