

Global Film Pulse Capacitor 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 Film Pulse Capacitor market size was valued at US\$ 639 million in 2025 and is forecast to a readjusted size of US\$ 1649 million by 2032 with a CAGR of 13.6% during review period.

Film Pulse Capacitor are thin-film capacitors designed for applications involving high dv/dt, high ripple current, short-duration high-current charging and discharging, high-frequency absorption/buffering, and pulse energy storage and release. They utilize metallized polypropylene film, double-sided metallized film, or a metallized film/foil composite structure as the core dielectric and electrode system. Typical products include AC & Pulse capacitors, snubber/IGBT snubber capacitors, LLC/resonant capacitors, high-energy pulse discharge capacitors, defibrillation/medical pulse capacitors, and military/research pulse power capacitors. Vishay, TDK, and Faratron all offer corresponding product lines for AC & Pulse, double-sided metallized PP, and metallized polypropylene film pulse or high-pulse absorption applications.

By 2025, global sales of thin-film pulse capacitors are projected to reach 106.22 million units, with an average price of \$5,851 per thousand units.

Development Trends

High dv/dt, High Frequency: Rising Demand for SiC/GaN Drivers

New energy vehicle OBCs, DC/DC converters, 800V platforms, photovoltaic-storage inverters, and high-frequency LLC topologies are driving the transition from standard PP film capacitors to double-sided metallized, high-pulse-strength, low-ESR/ESL, and

125°C high-temperature-rated capacitors. The EPCOS B3264xH double-sided metallized PP capacitor, launched by TDK in 2025, can withstand pulse stresses of up to 6,500 V/μs and is designed for high-frequency applications such as OBCs, DC-DC converters, UPS systems, and industrial SMPS.

Upgrading from Single Absorber Components to Modular/Integrated Capacitor Units

Electric drive systems, SiC power modules, laser power supplies, and pulse power supplies are gradually adopting customized capacitor modules with low stray inductance, requiring manufacturers to possess capabilities in metallized film design, winding, gold plating, potting, thermal design, and busbar integration. According to Eagle Peak Electronics' prospectus, its core products emphasize high-temperature resistance, high-voltage resistance, high current capacity, and low stray parameters, with applications spanning new energy vehicles, wind and solar power, and industrial automation.

Dry-Type, Self-Healing, and Safety-Oriented

High-voltage, high-energy pulse capacitors are evolving from traditional oil-immersed designs toward dry resin potting, flame-retardant plastic enclosures, explosion-proof designs, and self-healing metallized film technologies. Farad Electronics' C3S/C3K/C3T/C3G series covers metallized polypropylene film pulse capacitors and dry/oil-filled high-voltage, high-pulse-current absorption capacitors, emphasizing high energy density, high operating current, charge-discharge cycle life, low ESR, low self-inductance, and self-healing properties.

Expansion into high-reliability applications: medical, military, scientific research, and nuclear fusion

The ability to release high energy in a short time is the core differentiator of this product category. Knowles/CDE positions pulse power film capacitors as high-energy pulse discharge devices capable of releasing large amounts of energy in a short time, citing applications such as nuclear fusion, railguns, and radiation therapy.

This report is a detailed and comprehensive analysis for global Film Pulse Capacitor 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 Film Pulse Capacitor market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (USD/k Units), 2021-2032

Global Film Pulse Capacitor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (USD/k Units), 2021-2032

Global Film Pulse Capacitor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (USD/k Units), 2021-2032

Global Film Pulse Capacitor market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (USD/k Units), 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 Film Pulse Capacitor

- 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 Film Pulse Capacitor 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 TDK?JP?, Vishay?US?, YAGEO?TW?, WIMA?DE?, Knowles / Cornell Dubilier?US?, General Atomics EMS?US?, Eaton?US?, KYOCERA AVX?JP?, ELECTRONICON?DE?, OKAYA Electric?JP?, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Film Pulse Capacitor 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

PP (polypropylene)

PET (polyester)

PVDF (polyvinylidene fluoride)

Market segment by Voltage Rating

Low Voltage:

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