

CDE High Energy Storage, Pulse Discharge Capacitors

High Performance Film Capacitors for Pulse Discharge Applications.



Proven pulse discharge technology

Qualified for the most challenging medical, industrial and military applications

- Cornell Dubilier offers unparalleled expertise in the design and manufacture of custom high energy storage, pulse discharge capacitors for life-saving medical devices, industrial lasers, critical military applications and more
- Metalized film and foil electrodes options, with dry and oil-filled constructions and a broad range of plastic and metal packaging options
- Designed for high reliability in a wide variety of operating environments



Custom designed for your specific application

- Custom-designed film capacitors for Pulse, Flash Lamps, High Power Lasers and Pulse-Forming Networks
- Designed with electrical characteristics and form factors that meet the stringent needs of the most demanding applications
- CDE stresses the need for a thorough understanding of the requirements of the application throughout the design and test cycle
- CDE works collaboratively with you to efficiently create the optimal solution



The right solutions for industrial, medical, and military applications



Industrial and factory automation

- Robotic welding
- Electromagnetic metal forming
- Metal Powder Compaction
- Electrostatic precipitators
- Cable thumpers



Medical

- External automatic and manual defibrillators
- High-power medical lasers
- Oncology accelerator
- Laser tattoo and hair removal

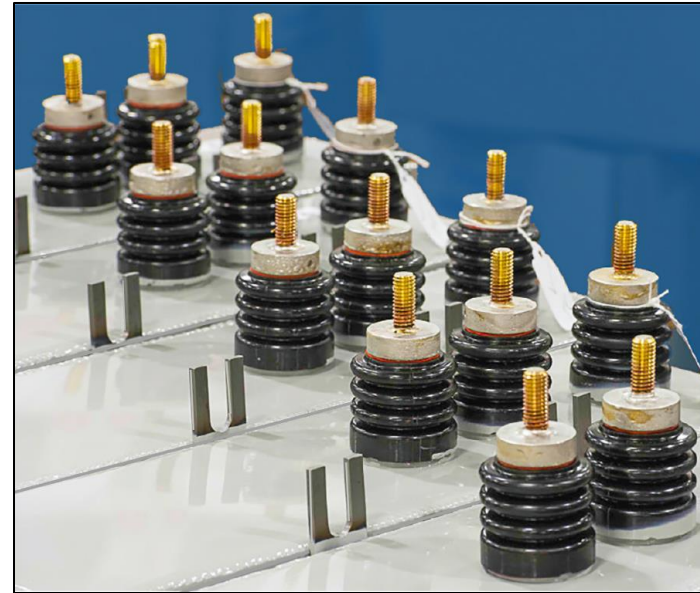


Military weapons systems and research

- Air defenses
- High-power lasers
- Electromagnetic Propulsion Gun
- Strobe lights
- Particle accelerators
- Radar systems

Designs that drive product performance success

- High voltage ratings to 100 kV
- Designed for user-specified life
- Dielectric design based on application requirement (Film/Foil, Metallized Film, Film/Paper)
- Dry, oil-filled and epoxy construction
- Multiple terminal configurations
- Metal and Plastic case options
- Low self-inductance



A closer look at key capabilities.

Highlights

- High voltage ratings to 100 kV
- Designed for user specified life
- Dielectric design based on application requirement (Film/Foil, Metallized Film)
- Wide range of dielectric materials-based application
- Oil filled dry epoxy construction
- Multiple terminal options
- Metal and plastic case design options
- Low inductance

Specifications

Capacitance Range	0.1 to 50,000 μ FD
Capacitance Tolerance	\pm 3% to \pm 10%
Voltage Range	Up to 100 kV
Operating Temperature	-40 °C to +55 °C Typical
Peak Current Level	Up to 250 kA
Inductance	<10 nH (Custom Designs)
Reversal	Up to 95%
Energy Density	2.0 J/cc
Pulse Life (Nominal)	250 k to 100 million
Rep Rate	1 to 120 per minute

CDE is a technology leader in the design and manufacture of capacitors

- Proven in the most demanding industrial, medical and military applications
- Capacitors are custom designed by our professional engineering team and built in the USA, ISO 9001:2015-certified
- Parts undergo the industry's most rigorous qualification and final testing



CDE is your source for high energy source, pulse discharge capacitors

- For life-saving medical devices, industrial lasers and critical military applications
- Choose from film, metalized and foil electrodes, dry and oil-filled constructions, with a broad range of plastic and metal packaging options.
- CDE works collaboratively with you to create the optimal solution
- **Learn more about the latest pulse-power solutions at <https://www.cde.com/new-product/pdc>**

