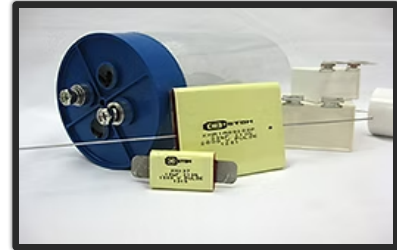




Capacitors

What is a capacitor?

A capacitor is an electrical component used to store energy. There are numerous types of capacitors but all consist of conductors separated by a dielectric (insulator). The energy is stored in an electrostatic field when a potential difference across the conductors develops. This is caused from a positive charge collecting on one plate and a negative charge collecting on the other.



Since 1964 Custom Electronics has successfully designed and manufactured the highest quality custom reconstituted mica paper capacitors available. Our capacitors (>15,000 designs) are used in many of the most demanding applications imaginable. Historically, every one of our capacitor designs was tailor-made to meet a specific customer's needs.

Our Mica Paper

At Custom, we use "Grade A" mica paper in our capacitors because it is an excellent dielectric. A dielectric is a material that does not conduct electricity, but one that can sustain an electric field in high-voltage capacitors. Mica paper consists of flexible, continuous and uniform layers of mica that are reconstituted or reformed into paper-like electrical insulating material composed of small, thin overlapping platelets. Custom's mica paper passes the most intensive series of quality checks in the industry. The result is high-voltage reconstituted mica paper capacitors that are used by leading high-tech companies for their space-age radar, missile, satellite, ignition, detonation, cryogenic, transmission, laser, medical and oil-and-gas exploration systems.

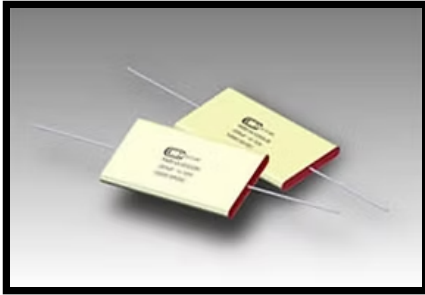
High Voltage / High Temperature Mica Capacitors

Capacitor Types



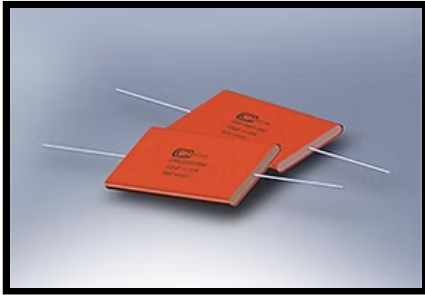
Custom Solutions

- Designed to Best Fit Application
- Variety of Packaging Options
- Voltage Ratings: Up to 100kVdc
- Capacitance Values: 10pf to 10μf
- Temperature Range: -65°C up to 260°C
- DC Pulse and AC Applications



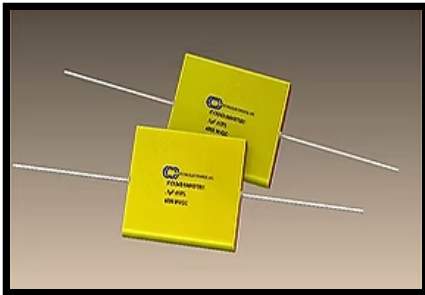
KMS Series

Wrap and Fill Style
 Axial Leads: Tin-Plated Solid Copper
 Voltage Ratings: Up to 10kVdc
 Capacitance Values: Up to 1.0 μ f
 Temperature Range : -65°C to 125°C



CKR

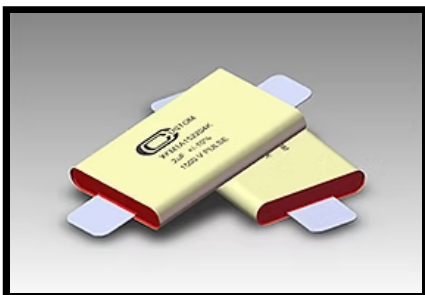
Wrap and Fill Style
 Axial Leads: Solid Nickel
 Voltage Ratings: Up to 5kVdc and 1kVac
 Capacitance Values: Up to 3.0 μ f
 Temperature Range : -65°C to 175°C



KVX Series

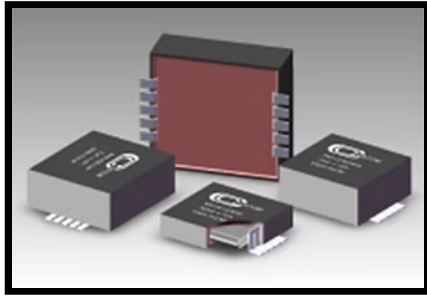
High Rel Mica Paper
 Leads: Tin-Plated Copper
 Voltage Ratings: Up to 30kVdc
 Capacitance Values: Up to 6.8 μ F
 Temperature Range : -55°C to 125°C

Exploding Foil Initiators / Exploding Bridge Wire Capacitors



XKM

Wrap and Fill Style
 Tabbed Leads: Tin Plated Copper
 Voltage Ratings: 1500V, 2500V, 3500V
 Capacitance Values: .050 μ F - .25 μ F
 Temperature Range : -55°C to 85°C



XKH

Surface Mount Package

Leads: Copper (Tin / Lead Plated)

Voltage Ratings: 1500V, 2500V, 3500V

Capacitance Values: .050µF - .15µF

Temperature Range : -65°C to 85°C

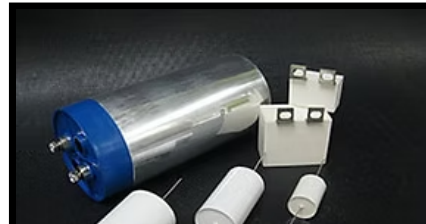
Film Capacitors

Custom Electronics is now your source for high quality metallized polypropylene capacitors for the Power Electronics industry. There is a wide range of values depending on the application and temperature ratings as high as 105°C.

Typical Capacitor Designs

- High Current
- High Voltage
- DC Link
- AC Designs

Typical Applications



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