



electrocube

... it's a part of what we do.

Who we are...

*A leader
since 1961*

Proven integrity and industry know-how

Electrocube is one of the most respected design manufacturers of passive electrical components for a wide range of standard and custom applications – from aerospace and audio to elevators and heavy equipment. Electrocube’s hallmark is its clear understanding of the challenges faced by design engineers and purchasing agents, as well as its after-sales support for clients.

The company is second-generation, family-owned and retains all operations – from manufacturing and design to delivery – within the U.S. Founded in 1961, honesty, integrity and credibility are consistently reflected in every aspect of service, sales and support for a vast network of distributors, as well as original equipment manufacturers.



An industry leader

Electrocube’s signature, custom design capabilities, combined with its highly modern manufacturing facilities, attentive customer service, superior quality control/inspection/testing and competitive pricing, earn the company its industry leadership.

Precision design, premier solutions

Electrocube provides client solutions with the highest degree of dependable, impeccable precision and unwavering quality, often coming to the rescue when other firms fail to perform. Customers rely on Electrocube’s expertise to provide product reliability, fresh designs, service excellence, environmental requirements and compressed lead times.



*Dependable,
impeccable precision*



Setting you apart...

Optimized design specifications

Widely known for unique, outstanding, custom design, Electrocube specializes in manufacturing made-to-order, one-of-a-kind precision components, supplementing and maximizing the most challenging of engineering specifications.

Extensive product lines

Electrocube stands alone as the only company that custom designs and manufactures film capacitors, RC Networks, EMI Filters and transformers. The company serves the meticulous needs of design engineers across the country and around the globe. Scope and specialization are further expanded with products from the other in-house brands of Seacor (electrolytic capacitor banks and film capacitors), F-Dyne/Southern Electronics (film capacitors) and pfc Precision Film Capacitors and Standards.

Environmental responsibility

Electrocube strictly adheres to all California and hazardous materials (HAZMAT) laws and partners with companies that embrace strong environmental guidelines. It supplies components to a variety of energy-saving industries including wind and solar generation, electric vehicles, geothermal, nuclear power and energy-efficiency. In addition, Electrocube is among the few companies to offer both non-RoHS (primarily for military applications) and RoHS (lead-free) parts in compliance with European REACH (Registration, Evaluation, Authorization and Restriction of Chemical substances) guidelines.

ISO9001 and AS9100 Registered ■ SBE Small Business Qualified ■ CCR, NAFTA and ITAR Registered



**One-of-a-kind
precision components**

Your global partner...

Electrocube's application-oriented expertise is utilized in dozens of industries from leaders in aerospace and audio to elevators and heavy equipment for a wide range of commercial, industrial and military applications.

Industries served

Our product scope is broad, our quality is deep. Here are just a few of the industries we serve:

- Aerospace
- Appliances
- Audio
- Commercial
- Equipment controls
- Environmental controls
- Industrial
- Medical
- Military
- Renewable energy
- Test equipment
- Transportation

Electrocube products are available factory direct and through an international network of sales representatives and stocking distributors. Contact us at 909.595.4037 or info@electrocube.com.



High-performance, long life

Film Capacitors

Precision film capacitors – similar to mechanical elasticity – are passive electrical components that consist of two metal electrodes/plates separated by a dielectric (insulator). Electrocube manufactures precision-wrap and fill, oval/round/flat and epoxy case/hermetically-sealed capacitors. These high-voltage capacitors – miniature wrap and fill capacitors – blend high-performance with longevity and durability. The company’s variety of styles and performance characteristics – standard, commodity and custom, plus low price and high volume – meet virtually all system requirements.



Electrocube Standard Film Capacitors

Electrocube maintains an extensive database of standard designs, proven consistently reliable for more than five decades. Stocking a wide inventory of winding material, Electrocube responds promptly and efficiently to all client needs.

- Capacitance range .0001 uf to 150 uf
- Temperature ranges from -55 C to +150 C
- Voltages from 35 VDC to 30 KVDC



Electrocube Custom Film Capacitors

Electrocube’s talented team, reflecting hundreds of combined years of design capability, crafts unique, specialized components for military and commercial avionics, as well as ground-based applications.

- Capacitance range .0001 uf to 150 uf
- Unique sizes, configurations and terminations
- Custom design services, total engineering support/ manufacturing capabilities
- Precision-designed
- Low ESL/ESR
- High current/voltage/pulse/ frequency applications

pfc Precision Film Capacitors and Standards

- Unique combination of Polystyrene and Mica dielectrics result in a zero temperature coefficient capacitor
- Precision Standards from .0001 uf to 10.0 uf
- Tolerance $\pm 0.1\%$
- Voltage to 500 VDC
- Complete kit of Precision Standards is available (pfc part no. SS-32)

Seacor/Commodity Capacitors

Electrocube’s factories provide competitive pricing for high-volume capacitor and suppressor applications. All components are thoroughly inspected and extensively tested at the Pomona, California manufacturing plant prior to client shipment.

- Economical high volume
- Agency approvals
- Electrolytic capacitors
- Custom values
- Power Factor Correction banks



Seacor Electrolytic Capacitor Banks

- Superior electrical performance/ long life
- Terminated using low-resistance copper bus strips
- Designed for various mounting configurations
- Banked to any capacitance value
- Voltages from 10 to 1,000
- Current up to 1000 amps RMS

Seacor Capacitors

- Broad selection of standard designs and features
- Engineered to meet wide range of requirements
- General purpose and precision
- High voltage/high pulse
- X2 suppression
- Motor Start
- UL, CSA, SEV and VDE approvals



Unique case configurations

RC Networks

Industry-leading, precision RC Networks are at the core of Electrocube's superior engineering and design expertise, to which it has dedicated decades of expertise and innovation. The company maintains an extensive line of more than 400 precision UL-recognized RC Networks, featuring a wide selection of case configurations with a number of lead variations. RC Networks are manufactured to specific customer requirements for single- and three-phase applications.



Thousands of unique suppression designs eliminate surges produced by relays and solenoids. Clients benefit from the team's experience in application engineering with regular complimentary consultations to solve the most challenging suppression problems.

- Agency approvals
- Variety of combinations available
- Special configurations
- DIN rail available

Electrocube's networks encompass a wide range of commercial applications, including:

- Machine tools
- Switchgear
- Motor controllers
- Computers
- Telecommunications
- Automated equipment
- Industrial appliances
- Elevators and escalators

Features include:

- Single-to-multiple combination
- Single- and three-phase application
- Metal cans and epoxy cases
- Solid and stranded wire leads with varying lengths and terminations
- Commercial and industrial applications
- CE is available
- Environmental and governmental compliant

Note: If a standard unit to fit your application is not illustrated, visit electrocube.com, contact us at 909.595.4037 or info@electrocube.com for options and additional details.



Custom EMI Filters

EMI Filters – which eliminate unwanted signal(s) – clean electrical power similar to how a water filter cleans water. For more than five decades, the Electrocube design team has provided its clients with solutions to the most demanding EMI problems.

Tough challenges, specific solutions

- Full custom design, manufacture and testing
- Complete inductor winding and filter production facilities
- 0.1 amp to 500 amps
- 1 VDC to 5000 VDC and up to 660 VAC
- Frequency up to 1000 Hz
- Military and commercial applications



Innovative design, materials and economy

Transformers

Electrocube designs and manufactures transformers and inductors for a wide variety of applications – from lighting and aerospace to mobile equipment and private avionics.



The company uses high-quality aluminum or copper foil instead of standard copper wire traditionally used for coil winders. This upgrade creates exceptional reliability, efficiency and economy. As a result of a company-funded development and testing program, Electrocube first introduced this unique construction technology in 1968, increasing economy and practicality in a wide variety of applications. Aluminum or copper foil transformers offer many advantages, including:

- Increased reliability
- Reduced size/weight
- Higher ambient temperature operating capability
- Improved electrical efficiency
- Increased electrical stress resistance
- Better overall regulation

Electrocube has developed a unique transformer advantage. Its ability to wind aluminum foil and proprietary termination to the foils creates a higher current and a more lightweight transformer compared to standard wire wound transformers.

- 40% average weight reduction over wire wound
- High reliability in comparison to wire wound
- Variety of configurations available



Transformer Rectifier Units

Transformer Rectifier Units (TRUs) represent Electrocube's most recent product expansion and one of the few component manufacturers in this space. Customized in-house and utilizing lightweight, high reliability foil transformers to produce a unique power supply, the key differentiator of the TRU is the ability to "multi-phase" or pulse the signal. These features allow the reduction of the output EMI Filter, eliminating excess weight and size.

- Compact size
- Reduced weight
- High KVA output with 5 KVA to 50 KVA power range
- Exceptional reliability and efficiency
- Commercial and military applications
- FAA-certified manufacturer
- PMA
- Approved supplier to leading aircraft manufacturers

Current Transformers

Electrocube's current transformers (CTs), also known as instrument transformers, are used primarily for power system wiring protection and power supply control. Single (donut-shaped) or multiple phase (3+ hole block) versions can be installed as a permanent part of the system or as a "clamp-on" design for temporary monitoring. The secondary current (generally much lower than the primary current) can be monitored or used as a "fail-safe" indicator to shut down the system during an over- or under-current situation.

- Designed and manufactured to client specifications
- Wound to specific ratio (primary to secondary ratio)
- Predictable characteristics – overloads and short circuits





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