CALGAS
CAPACITOR

Rail Industry I E Mobility | New Energy I Film Capacitor

CALGAS CAPACITOR

ABOUT US!

Calgas Capacitors, headquartered in Kolkata, is an emerging leader in capacitor technology and power quality solutions. With a state-of-the-art manufacturing unit at Navsari, Gujarat, we specialize in the design and manufacturing of industrial-grade capacitors that deliver unmatched performance, durability, and efficiency.

Our products play a vital role in applications such as harmonic filtering, power factor correction, and energy optimization, empowering industries across utilities, heavy manufacturing, transportation, and infrastructure. Each capacitor is engineered with precision, built from advanced materials, and rigorously tested to ensure long service life and reliable operation even under demanding conditions.

At Calgas Capacitors, our mission is simple yet powerful: to empower industries with smarter, more efficient, and sustainable power solutions. Guided by innovation, technical expertise, and a customer-first mindset, we are committed to being a trusted partner for businesses seeking long-term reliability and energy savings.

Calgas Capacitors – Powering Efficiency, Driving Progress.

POWER ELECTRONICS DIVISION

Film capacitors for AC Filtering and DC-Link applications for power electronic systems and applications.

Main sectors in which products are used

- Power converters
- Welding
- Inverters for rail
- Energy storage
- UPS
- Harmonic filtering
- Traction
- Converters
- Induction heating
- Power factor correction (PFC) and renewable energy conversion such as solar and wind inverters

Functions performedDesign that combines the long experience that Calgas Capacitors has developed over the years with recent innovations, to offer high performance in terms of current, voltage, frequency and temperature. Wide customization possibilities based on the needs of the customer's project.

DRY TYPE DC

FILTER CAPACITOR

Features & Applications

- High temperature resistant polypropylene film medium, thickened metallized electrode, non-inductive winding structure.
- Aluminum housing, potted with thermally conductive resin.
- Low equivalent series resistance and able to withstand high ripple current.
- Able to withstand impacting of high-peak current.
- Low self-inductance, long service life.
- Applicable to DC filter circuits used as filtering or energy storage and ideal to instead of electrolytic capacitor.
- Used in wind power generation, solar power generation inverter.
- High voltage frequency converters, SVC, SVG, etc.

THREE-PHASE AC

FILTER CAPACITOR

Features

- Low dissipation factor, high pulse current withstand capability.
- Good self-healing and voltage withstand, high long term stability.
- Dry resin filling, no leakage risk, flame retardant grade UL94 V-0.
- Anti-explosion design, overpressure tear-off fuse and be more safety.
- Dust cover, or shock hazard protected terminal.

Applications

- AC-Filter circuit in power electronic Wind power.
- Suitable for wind power, photovoltaic, energy storage, UPS and other occasions
- AC filtering and Power system for PFC.

Dry Type Absorption Capacitor

Features and Appilication

- Use high-temperature resistant PP film as dielectric, internal series type of metallized electrode, no inductance winding. structure.
- Cylindrical plastic housing, potted with thermally conductive resin.
- Small product size, excellent heat dissipation.
- Use tinned copper terminals as a axial lead.
- Low self-inductance and equivalent series resistance.
- High withstand voltage, low capacitance loss and strong ability for withstanding impacting of current.
- Mainly used in power electronic equipments for absorption protection on the rectifying tube of the main rectifier device, thyristors and GTO.

Dry Type Resonant Capacitor

Features and Appilication

- Use high-temperature resistant PP film as dielectric, thickening type double sides metallized electroces, no inductance winding structure;
- Cylindrical plastic housing, potted with thermally conductive resin.
- Small product size, excellent heat dissipation
- Tinned copper terminals as a lead.
- Low self-inductance and equivalent series resistance.
- Strong ability for withstanding impacting of current.
- Widely applied to DC-filter and high-frequency current occasion.

High Voltage Pulse Capacitor

Features and Appilication

- Insulated housing, dry type.
- High-temperature resistant metallized PP film as dielectric.
- Self-healing, long service life, high reliabilty and able to withstand the impacting of instantaneous high current
- Applicable for impulse voltage generator and other occasions.

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Film Capacitor For New Energy Vehicle

Features and Appilication

- High-temperature resistant PP film as dielectric, thickening metallized electrodes, no inductance winding structure.
- Plastic housing, potted with the thermally conductive epoxy resin.
- Small product size and excellent heat dissipation.
- Using tinned copper terminals as a lead.
- Low self-inductance and equivalent series resistance.
- Strong ability for withstanding impacting of current.
- Widely applicable to DC filter circuits and ideal to instead of electrolytic capacitor.
- Electromobile and hybrid power vehicle.
- Motor driving, welding equipment and elevator.

Film Capacitor For New Energy Vehicle

Features and Appilication

- Applicable to DC filter circuits.
- Low equivalent series resistance and able to withstand high ripple current.
- Able to withstand impacting of high-peak current.
- Low self-inductance.
- Suit for a wide range of application because of the product's temperature, long service life.
- High-temperature resistant metallized PP film, excellent self-healing performance.
- Insulated housing, potted with thermal conductive resin, the flame retartant level reaches UL94V-0.
- Applicable to high power electronic devices used as filtering or energy storage.
- Vehicles, eg: electromobile and hybrid power vehicle.
- Welding equipment, elevator, motor driving.
- Variable speed drive (drive and traction).

HIGH VOLTAGE DC FILTER CAPACITOR BOX

- Stainless steel case, epoxy resin sealing
- Dry construction, no leaking fluids
- Self-healing property, segmented metallized-film design
- Low ESR & Low Ls
- High rms current capability
- DC-Link
- Speed inverter (drives and traction)
- Wind power converter

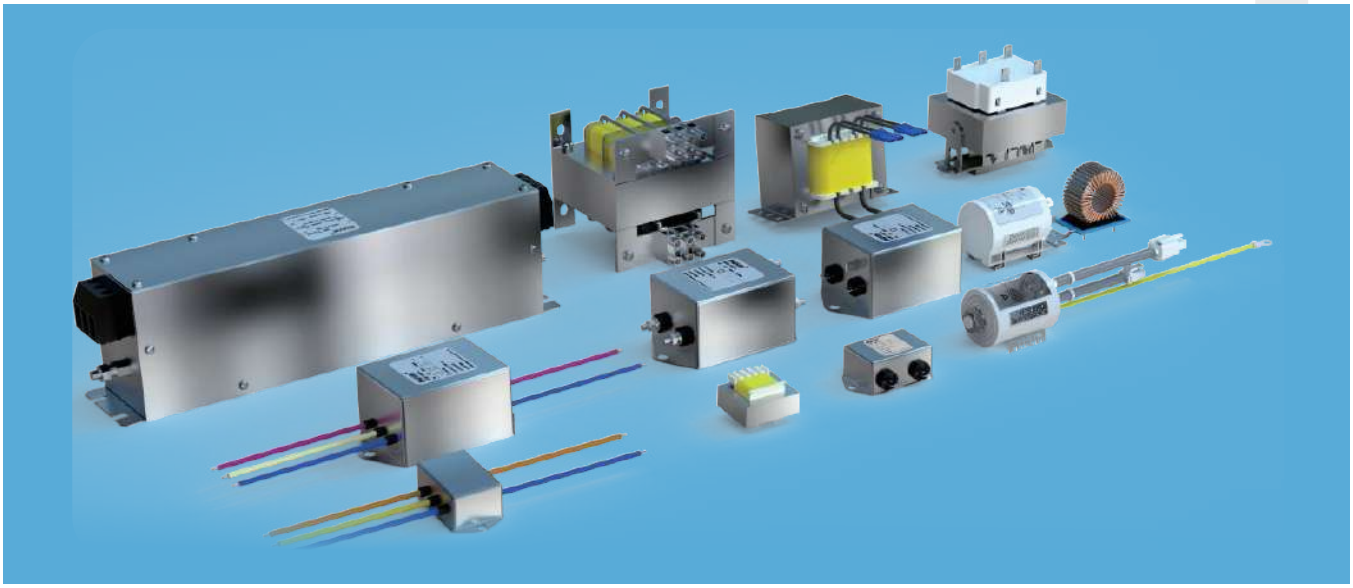
Features

- Stainless steel case, epoxy resin sealing
- Dry construction, no leaking fluids
- Self-healing property, segmented metallized-film design
- Low ESR & Low Ls
- High rms current capability

Applications

- DC-Link
- Speed inverter (drives and traction)
- Wind power converter
- Substation

EMI Filter & Reactor



Three-phase Three-wire Elevator / Escalator Filter

Features & Applications

- Three-phase Three-wire (without neutral) Industrial Grade EMI Filter.
- Flat and long structure, european through-wall terminal outlet mood, safe and reliable design.
- Matching with the customer's entire ladder can meet the conduction emission limits of different current segments of EN12015 (GB/T24807).
- Widely used in the control cabinets of elevators, escalators, sidewalks and others.

Three-phase Four-wire Elevator / Escalator Filter

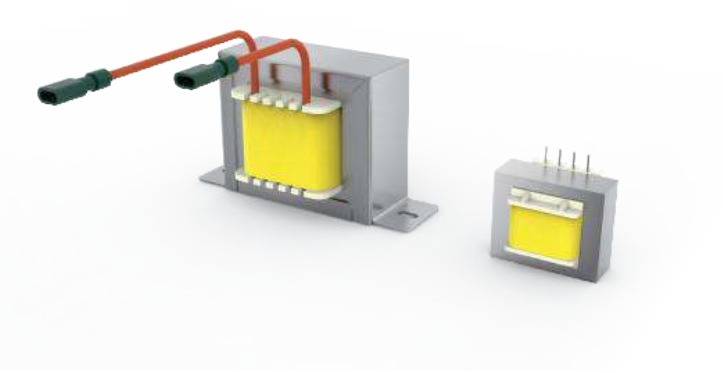
Features & Applications

- Three-phase Four-wire (without neutral) Industrial Grade EMI Filter.
- Flat and long structure, european through-wall terminal outlet mood, safe and reliable design.
- Matching with the customer's entire ladder can meet the conduction emission limits of different current segments of En12015 (GB/T24807).
- Widely used in the control cabinets of elevators, escalators, sidewalks and others.

Single-phase Reactor Series

Features & Applications

- Ei laminated core and fixed by argon arc welding or riding clip.
- Small product size, low sound, low temperature rise.
- Efficiently suppress or compensate harmonic currents and increase PFC power factor.
- Widely applied in home appliances, fitness and treadmill equipment(can be combined with EMI filters).



Reactor for Inverter Air-conditioner

Features & Applications

- It is mainly used for PFC circuit in inverter air conditioner to filter out high-order harmonics and improve power factor.

Film Capacitor For New Energy Vehicle-Passenger Vehicle

Features & Applications

- It is mainly used for PFC circuit in inverter air
- Excellent heat resistance.
- Small size and lower stray inductance.
- Able to withstand impacting of high peak current.
- Widely operating temperature range.
- Stable product performance with long lifetime.
- With the design of high insulation and flame retardant, the flame retardant grade reaches UL 94V-0.
- Potted with thermal conductive resin and the integrated bus-bar design.
- The bus capacitor in the motor control system of the pure electric and hybrid electric passenger vehicles is used for DC filtering and supporting.

Film Capacitor For New Energy Vehicle-Commercial Vehicle

Features & Applications

- Excellent heat resistance.
- Small size and lower stray inductance.
- Able to withstand impacting of high peak current.
- Widely operating temperature range.
- Stable product performance with long lifetime.
- With the design of high insulation and flame retardant, the flame retardant grade reaches UL 94V-0.
- Potted with thermal conductive resin and the integrated bus-bar design.
- Low equivalent series resistance, strong capability of ripple current resistance.
- The bus capacitor in the motor control system of the pure electric and hybrid electric passenger vehicles is used for DC filtering and supporting.

Film Capacitor For New Energy Vehicle-Commercial Truck

Features & Applications

- Excellent heat resistance with lower stray inductance.
- Able to withstand impacting of high peak current.
- Widely operating temperature range.
- Stable product performance with long lifetime.
- With the design of high insulation and flame retardant, the flame retardant grade reaches UL 94V-0.
- Potted with thermal conductive resin and the integrated bus-bar design.
- Low equivalent series resistance, strong capability of ultra-high ripple current resistance.
- High voltage and large capacity design.
- The bus capacitor in the motor control system of the pure electric truck is used for DC filtering and supporting.

Film Capacitor For New Energy Vehicle-Logistics Vehicle

Features & Applications

- Excellent heat resistance.
- Small size and lower stray inductance.
- Able to withstand impacting of high peak current.
- Widely operating temperature range.
- Stable product performance with long lifetime.
- With the design of high insulation and flame retardant, the flame retardant grade reaches UL 94V-0.
- Potted with thermal conductive resin and the integrated bus-bar design.
- The bus capacitor in the motor control system of the pure electric logistics vehicle is used for DC filtering and supporting.

Film Capacitor For New Energy Vehicle Special Vehicle

Features & Applications

- Excellent heat resistance with lower stray inductance.
- Able to withstand impacting of high peak current.
- Widely operating temperature range.
- Stable product performance with long lifetime.
- With the design of high insulation and flame retardant, the flame retardant grade reaches UL 94V-0.
- Potted with thermal conductive resin and the integrated bus-bar design, suitable for various complex working conditions.
- The bus capacitor in the motor control system of the special vehicles, such as electric weapons and equipment and UAV and the large transport vehicles, is used for DC filtering and supporting.

Film Capacitor For New Energy Vehicle-Double electronic control

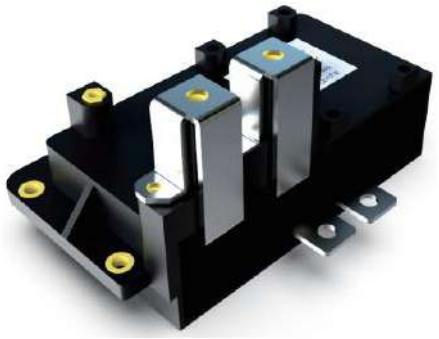
Features & Applications

- Used for DC filtering in dual motor control systems.
- Small size, good heat resistance, and low stray inductance.
- A single capacitor can simultaneously meet the operating conditions of two sets of motor control systems, saving space and reducing costs

Film Capacitor For New Energy Vehicle -125°C product

Features & Applications

- Excellent heat resistance (125°C).
- Small size and lower stray inductance.
- Able to withstand impacting of high peak current.
- Widely operating temperature range.
- Stable product performance with long lifetime.
- With the design of high insulation and flame retardant, the flame retardant grade reaches UL 94V-0.
- Potted with thermal conductive resin and the integrated bus-bar design. *Low equivalent series resistance, strong capability of high ripple current resistance, high switching frequency(50kHz).
- The bus capacitor in the motor control system of ultra-high temperature working condition and SIC platform is used for DC filtering and supporting.



Film Capacitor For New Energy Vehicle -125°C product

Features & Applications

- Excellent heat resistance (125°C).
- Small size and lower stray inductance.
- Able to withstand impacting of high peak current.
- Widely operating temperature range.
- Stable product performance with long lifetime.
- With the design of high insulation and flame retardant, the flame retardant grade reaches UL 94V-0.
- Potted with thermal conductive resin and the integrated bus-bar design.
- Low equivalent series resistance, strong capability of high ripple current resistance, high switching frequency(50kHz).
- The bus capacitor in the motor control system of ultra-high temperature working condition and SIC platform is used for DC filtering and supporting.

Film Capacitor For New Energy Vehicle-Cylindrical capacitor

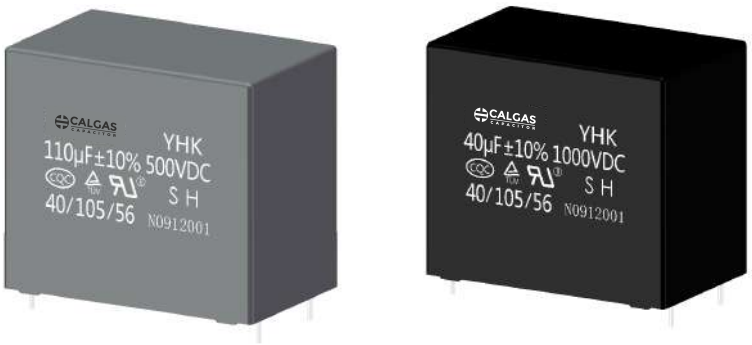
Features & Applications

- Strong ability to withstand current impact, small size, good heat dissipation, low equivalent series resistance.
- It is widely used in DC filter circuits and can replace electrolytic capacitors.

DC-link Metallized Polypropylene Film Capacitors (MKP)

Features

- High CV product, compact
- Good self-healing properties
- Over-voltage capability
- Low losses with high current capability
- High reliability
- Good High humidity resistance
- Long useful life
- RoHS-compatible
- Meet AEC-Q200.



Applications

- Frequency converters
- Industrial and high-end power supplies
- Solar inverters

Construction

- Dielectric: Polypropylene (MKP)
- PBT/PPS Plastic case (UL 94 V-0)
- Epoxy resin sealing (UL 94 V-0)

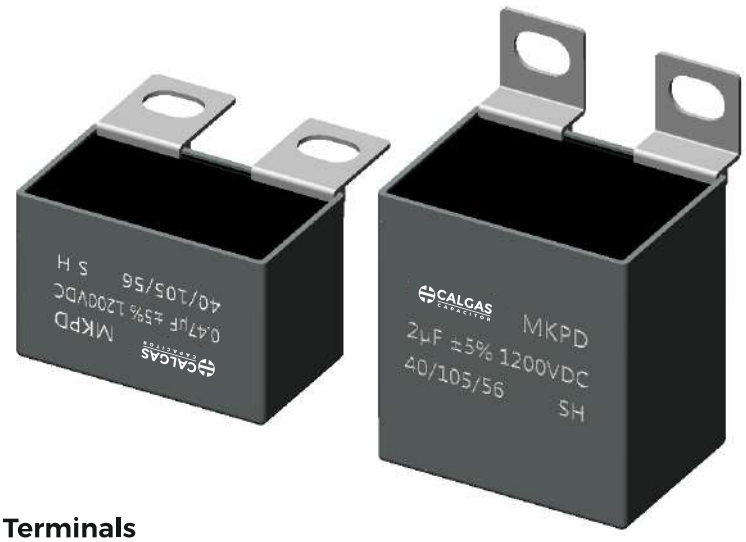
Terminals

- Parallel wire leads, lead-free tinned
- 2-pins, 4-pins, versions
- Standard lead lengths: 5 ± 1 mm

MKPD Metallized Polypropylene Film Capacitors

Features

- High pulse intensity
- Good self-healing properties
- Excellent flame retardant ability
- High reliability
- Long useful life
- RoHS-compatible



Applications

- Electronic ballasts
- Snubbering
- Switch-mode power supplies

Construction

- Dielectric: Polypropylene (MKP)
- PBT Plastic case (UL 94 V-0)
- Epoxy resin sealing (UL 94 V-0)

Terminals

- Copper terminals, lead-free tin plating

COMMITMENT VISION

At Calgas Capacitors, we are committed to driving energy efficiency, power quality, and sustainability by combining innovation with customer-focused solutions. Our vision is clear: to be a global leader in advanced capacitor solutions, delivering innovation, reliability, and sustainability for a smarter energy future.

MISSION

- Design & Manufacture: Create high-performance capacitors that enhance efficiency, safety, and reliability in power electronics.
- Support Emerging Industries: Serve renewable energy, electric mobility, and automation with cutting-edge technology.
- Customer-Centric Solutions: Deliver customized products with uncompromising quality, service, and innovation.
- Sustainability Focus: Contribute to a more energy-efficient and responsible world through continuous research and eco-conscious practices.

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